

```
QY 553 DGRSGYQDGKIMHAINRRLLGTFEVEDQIEAARQFSKMGFVDNKRKRIAIWGSYGGYVTSM 612
Db 579 DGRSGYQDGKIMHAINRRLLGTFEVEDQIEAARQFSKMGFVDNKRKRIAIWGSYGGYVTSM 638
QY 613 VLGSYGVPKCGIAVAPVSRWEYDVSVYTERYMGFLPTPEDNLDHYRNSTVMSRAENFKQV 672
Db 639 VLGSYGVPKCGIAVAPVSRWEYDVSVYTERYMGFLPTPEDNLDHYRNSTVMSRAENFKQV 698
QY 673 EYLLIHGTADDNVHFQQAISKALVDVGVDFQAMWYTDHGHGIASSSTAHOHIYTHMSHF 732
Db 699 EYLLIHGTADDNVHFQQAISKALVDVGVDFQAMWYTDHGHGIASSSTAHOHIYTHMSHF 758
QY 733 IKQCFSLP 740
Db 759 IKQCFSLP 766

RESULT 33
ID AARS4613
AC AARS4613;
XX
DT 25-MAR-2003 (revised)
DT 09-DEC-1994 (first entry)
XX
DE Delta24-34 CD26.
XX
KW Human; T cell activation antigen; CD26; analogues; deletion; soluble;
KW signal peptidase; immune-stimulating; response-stimulating; AIDS;
KW immunosuppression; AIDS-related complex.
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FT Misc-difference 23..24
FT /note= "Position of delta24-34 deletion"
XX
PN WO9409132-A1.
XX
PD 28-APR-1994.
XX
PF 19-AUG-1993; 93WO-US007923.
XX
PR 21-AUG-1992; 92US-00934162.
XX
PA (DAND ) DANA FARBER CANCER INST INC.
XX
PI Morimoto C, Schlossman S, Tanaka T;
XX WPI; 1994-151317/18.
XX
PT Polypeptide fragments and analogues of CD26 and encoding nucleic acid -
PT useful for stimulating immune response, e.g. for treatment of AIDS to
PT counteract immunosuppressive drug, and as vaccine adjuvant.
XX
PS Claim 4; Page 52-54; 85pp; English.
XX
CC The sequences given in AARS4612-14 represents analogues of the human T
CC cell activation antigen CD26 which have internal deletions. The analogues
CC pref. lack residues 3-9 or 24-34. These analogues are soluble under
CC physiological conditions and lack enough amino acid residues to render
CC them susceptible to cleavage by signal peptidase. The peptide fragments
CC and analogues are useful as immune or response- stimulating therapeutics,
CC eg. they may be used for treatment of disease conditions characterised by
CC immunosuppression, eg. AIDS or AIDS-related complex, other virally or
CC environmentally-induced conditions, and certain congenital immune
CC deficiencies. The peptides can be employed to increase immune function
CC which has been impaired by use of immunosuppressive drugs, such as certain
CC chemotherapeutic drugs. (Updated on 25-MAR-2003 to correct PN field.)
XX
SQ Sequence 739 AA;
```

```
Query Match 95.5%; Score 3841; DB 2; Length 739;
Best Local Similarity 97.7%; Pred. No. 0;
Matches 711; Conservative 0; Mismatches 1; Indels 16; Gaps 1;

QY 13 SRKTYTLTDYLNKTYRLKLYSLRWISDHEYLKQENNILVFNNAEYGNSSVFLNSTPDEF 72
Db 28 SRKTYTLTDYLNKTYRLKLYSLRWISDHEYLKQENNILVFNNAEYGNSSVFLNSTPDEF 87
QY 73 GHSINDYISIPDGGFILLLEYNVVKQWRHSYTSYDIYDLNKRQLITEERIPINNTQWTVWS 132
Db 88 GHSINDYISIPDGGFILLLEYNVVKQWRHSYTSYDIYDLNKRQLITEERIPINNTQWTVWS 147
QY 133 PVGHKLAYVWNNDIYVKIEPNLPSYRITWTGKEDIYNGITDWTVEEVEFSAYSLMWSP 192
Db 148 PVGHKLAYVWNNDIYVKIEPNLPSYRITWTGKEDIYNGITDWTVEEVEFSAYSLMWSP 207
QY 193 NGTFLAYAQFNDTEVPLIEYSFYSDESIQYPKTVRVPYKAGAVNPTVKFFVNTDSLSS 252
Db 208 NGTFLAYAQFNDTEVPLIEYSFYSDESIQYPKTVRVPYKAGAVNPTVKFFVNTDSLSS 267
QY 253 VTNATSIQITAPASMLIGDHVLCVWTATQERISLQWLRRIQNSVMDICDYDESSGRWN 312
Db 268 VTNATSIQITAPASMLIGDHVLCVWTATQERISLQWLRRIQNSVMDICDYDESSGRWN 327
QY 313 CLVARQHIEMSTTGWGRFRPSEPHFTLDGNSFYKIIISNEEGYRHCYFQIDKDKCTFIT 372
Db 328 CLVARQHIEMSTTGWGRFRPSEPHFTLDGNSFYKIIISNEEGYRHCYFQIDKDKCTFIT 387
QY 373 KGTWEVIGIEALTSDYLYIISNEYKMGPGGRNLYKIQISDYTKVTCLSCELNPERCOVYS 432
Db 388 KGTWEVIGIEALTSDYLYIISNEYKMGPGGRNLYKIQISDYTKVTCLSCELNPERCOVYS 447
QY 433 VSFSKEAKYQYLRCSGGPLPLYTLHSSVNDKGLRVLEDNSALDKMLQNVQMPSEKLDFTII 492
Db 448 VSFSKEAKYQYLRCSGGPLPLYTLHSSVNDKGLRVLEDNSALDKMLQNVQMPSEKLDFTII 507
QY 493 LNETKFWYQMLPPHFDKSKKYPILLDDVYAGPCSKADTVFRLNWTYLASTENIIVASF 552
Db 508 LNETKFWYQMLPPHFDKSKKYPILLDDVYAGPCSKADTVFRLNWTYLASTENIIVASF 567
QY 553 DGRSGYQDGKIMHAINRRLLGTFEVEDQIEAARQFSKMGFVDNKRKRIAIWGSYGGYVTSM 612
Db 568 DGRSGYQDGKIMHAINRRLLGTFEVEDQIEAARQFSKMGFVDNKRKRIAIWGSYGGYVTSM 627
QY 613 VLGSYGVPKCGIAVAPVSRWEYDVSVYTERYMGFLPTPEDNLDHYRNSTVMSRAENFKQV 672
Db 628 VLGSYGVPKCGIAVAPVSRWEYDVSVYTERYMGFLPTPEDNLDHYRNSTVMSRAENFKQV 687
QY 673 EYLLIHGTADDNVHFQQAISKALVDVGVDFQAMWYTDHGHGIASSSTAHOHIYTHMSHF 732
Db 688 EYLLIHGTADDNVHFQQAISKALVDVGVDFQAMWYTDHGHGIASSSTAHOHIYTHMSHF 731
QY 733 IKQCFSLP 740
Db 732 IKQCFSLP 739
```

Search completed: February 17, 2006, 20:41:02

Job time : 200 secs

Db 39 SRKVTYTLTKNTYRLKLSLRWISDHEYLKQENNLVFNAYGNSVFLNSTDFEF 98
Qy 73 GHSINDYSISPDGQFILLEYNVYKQWRHSYTSYDIYDLNKRQLITEERIPNNTQWTVWS 132
Db 99 GHSINDYSISPDGQFILLEYNVYKQWRHSYTSYDIYDLNKRQLITEERIPNNTQWTVWS 158
Qy 133 PVGHKLAYVWNNDIYVKIEPNLPSYRIITWTGKEDIYNGITDWTVEEVEFSAYSALWSP 192
Db 159 PVGHKLAYVWNNDIYVKIEPNLPSYRIITWTGKEDIYNGITDWTVEEVEFSAYSALWSP 218
Qy 193 NGTFLAYAQFNDTEVPLIEYSFYSDLSQYPTKTRVPYPKAGAVNPTKFFVNTDSLS 252
Db 219 NGTFLAYAQFNDTEVPLIEYSFYSDLSQYPTKTRVPYPKAGAVNPTKFFVNTDSLS 278
Qy 253 VTNATSIQITAPASMLIGDHYLCDVTWATQBRISLOWLRRIQNTSVMDICDYDESSGRWN 312
Db 279 VTNATSIQITAPASMLIGDHYLCDVTWATQBRISLOWLRRIQNTSVMDICDYDESSGRWN 338
Qy 313 CLVARQHLEMTTGWGFRPSEPHFTLDGNSFYKIIISNEEGYRHCYFQIDKXCTFIT 372
Db 339 CLVARQHLEMTTGWGFRPSEPHFTLDGNSFYKIIISNEEGYRHCYFQIDKXCTFIT 398
Qy 373 KGTWEVIGIEALTSDYLYYISNEYKMPGGRNLKYQLSDYTKVTCLSCELNPERCOYS 432
Db 399 KGTWEVIGIEALTSDYLYYISNEYKMPGGRNLKYQLSDYTKVTCLSCELNPERCOYS 458
Qy 433 VFSKKAQYQLRCSGPGPLPLYTLHSSVNDKGLRVLEDSALDKMLQNVQMPSKLDFII 492
Db 459 VFSKKAQYQLRCSGPGPLPLYTLHSSVNDKGLRVLEDSALDKMLQNVQMPSKLDFII 518
Qy 493 LNETKFWYQMLPPHFDKSKYPLLLDVYAGPCSQKADTVFRLNWTATYLASTENIIVASF 552
Db 519 LNETKFWYQMLPPHFDKSKYPLLLDVYAGPCSQKADTVFRLNWTATYLASTENIIVASF 578
Qy 553 DGRSGYQGDKIMHAINRRLGTPEVEQIEAARQFSKMGFVNDKRIALWGSYGYVTSM 612
Db 579 DGRSGYQGDKIMHAINRRLGTPEVEQIEAARQFSKMGFVNDKRIALWGSYGYVTSM 638
Qy 613 VLGSYGKFCGIAVAPVSRWEYVDSVYTERYMGLEPTPEDMLDHYRNSTVMSRAENFKQV 672
Db 639 VLGSYGKFCGIAVAPVSRWEYVDSVYTERYMGLEPTPEDMLDHYRNSTVMSRAENFKQV 698
Qy 673 EYLLIHGTADDNVHFQSAQISKALVDGVDFQAWWYTDDEHGIASSTAHOHIYTHMSHF 732
Db 699 EYLLIHGTADDNVHFQSAQISKALVDGVDFQAWWYTDDEHGIASSTAHOHIYTHMSHF 758
Qy 733 IKQCFSLP 740
Db 759 IKQCFSLP 766

RESULT 32
AAR54611
ID AAR54611 standard; protein; 766 AA.

AC AAR54611;

XX 25-MAR-2003 (revised)
DT 09-DEC-1994 (first entry)

XX Native CD26.

XX Human; T cell activation antigen; CD26; analogues; deletion; soluble;
KW signal peptidase; immune-stimulating; response-stimulating; AIDS;
KW immunosuppression; AIDS-related complex.

OS Homo sapiens.

XX W09409132-A1.

XX 28-APR-1994.

XX

PF 19-AUG-1993; 93WO-US007923.
PR 21-AUG-1992; 92US-00934162.
PA (DAND) DANA FARBER CANCER INST INC.
XX Morimoto C, Schlossman S, Tanaka T;
PI WPI; 1994-151317/18.
DR N-PSDB; AAQ63261.

XX Polypeptide fragments and analogues of CD26 and encoding nucleic acid -
PT useful for stimulating immune response, e.g. for treatment of AIDS to
PT counteract immunosuppressive drug, and as vaccine adjuvant.

XX Disclosure; Page 46-49; 85pp; English.

XX This sequence represents the human T cell activation antigen CD26. The
CC invention is concerned with polypeptide fragments and analogues of CD26
CC which have internal deletions (see also AAR54612-14). The analogues pref.
CC lack residues 3-9 or 24-34. These analogues are soluble under
CC physiological conditions and lack enough amino acid residues to render
CC them susceptible to cleavage by signal peptidase. The peptide fragments
CC and analogues are useful as immune or response- stimulating therapeutics,
CC eg. they may be used for treatment of disease conditions characterised by
CC immunosuppression, eg. AIDS or AIDS-related complex, other virally or
CC environmentally-induced conditions, and certain congenital immune
CC deficiencies. The peptides can be employed to increase immune function
CC which has been impaired by use of immunosuppressive drugs, such as certain
CC chemotherapeutic drugs. (Updated on 25-MAR-2003 to correct PN field.)
XX

SQ Sequence 766 AA;

Query Match 97.7%; Score 3928; DB 2; Length 766;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 727; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 13 SRKTYTLTKNTYRLKLSLRWISDHEYLKQENNLVFNAYGNSVFLNSTDFEF 72
Db 39 SRKTYTLTKNTYRLKLSLRWISDHEYLKQENNLVFNAYGNSVFLNSTDFEF 98
Qy 73 GHSINDYSISPDGQFILLEYNVYKQWRHSYTSYDIYDLNKRQLITEERIPNNTQWTVWS 132
Db 99 GHSINDYSISPDGQFILLEYNVYKQWRHSYTSYDIYDLNKRQLITEERIPNNTQWTVWS 158
Qy 133 PVGHKLAYVWNNDIYVKIEPNLPSYRIITWTGKEDIYNGITDWTVEEVEFSAYSALWSP 192
Db 159 PVGHKLAYVWNNDIYVKIEPNLPSYRIITWTGKEDIYNGITDWTVEEVEFSAYSALWSP 218
Qy 193 NGTFLAYAQFNDTEVPLIEYSFYSDLSQYPTKTRVPYPKAGAVNPTKFFVNTDSLS 252
Db 219 NGTFLAYAQFNDTEVPLIEYSFYSDLSQYPTKTRVPYPKAGAVNPTKFFVNTDSLS 278
Qy 253 VTNATSIQITAPASMLIGDHYLCDVTWATQBRISLOWLRRIQNTSVMDICDYDESSGRWN 312
Db 279 VTNATSIQITAPASMLIGDHYLCDVTWATQBRISLOWLRRIQNTSVMDICDYDESSGRWN 338
Qy 313 CLVARQHLEMTTGWGFRPSEPHFTLDGNSFYKIIISNEEGYRHCYFQIDKXCTFIT 372
Db 339 CLVARQHLEMTTGWGFRPSEPHFTLDGNSFYKIIISNEEGYRHCYFQIDKXCTFIT 398
Qy 373 KGTWEVIGIEALTSDYLYYISNEYKMPGGRNLKYQLSDYTKVTCLSCELNPERCOYS 432
Db 399 KGTWEVIGIEALTSDYLYYISNEYKMPGGRNLKYQLSDYTKVTCLSCELNPERCOYS 458
Qy 433 VFSKKAQYQLRCSGPGPLPLYTLHSSVNDKGLRVLEDSALDKMLQNVQMPSKLDFII 492
Db 459 VFSKKAQYQLRCSGPGPLPLYTLHSSVNDKGLRVLEDSALDKMLQNVQMPSKLDFII 518
Qy 493 LNETKFWYQMLPPHFDKSKYPLLLDVYAGPCSQKADTVFRLNWTATYLASTENIIVASF 552
Db 519 LNETKFWYQMLPPHFDKSKYPLLLDVYAGPCSQKADTVFRLNWTATYLASTENIIVASF 578

PF 08-JAN-2004; 2004WO-US0000368.
XX
PR 08-JAN-2003; 2003US-0438735P.
XX
PA (BRIM) BRISTOL-MYERS SQUIBB CO.
XX
PI Amler LC, Januario T;
XX
DR WPI; 2004-544114/52.
XX
DR N-PSDB; ADQ80241.
XX
XX Identifying a mammal that will respond therapeutically to a method of
PT treating cancer comprises comparing the level of a biomarker in a mammal
PT before and after exposure to an epidermal growth factor receptor (EGFR)
PT modulator.
XX
PS Disclosure; SEQ ID NO 137; 520pp; English.
XX
CC The invention relates to a method of identifying a mammal that will
CC respond therapeutically to a method of treating cancer by administering
CC an epidermal growth factor receptor (EGFR) modulator by comparing the
CC level of a biomarker in a mammal before and after exposure to an EGFR
CC modulator. The method comprises: (a) measuring, in the mammal, the level
CC of at least one biomarker identified in the specification; (b) exposing
CC the mammal to the EGFR modulator; and (c) measuring in the mammal the
CC level of the biomarker, where a difference in the level in step (c)
CC compared to step (a) indicates that the mammal will respond
CC therapeutically to the method of treating cancer. The method and
CC biomarkers are useful for identifying a mammal that will respond
CC therapeutically to a method of treating cancer by administering an
CC epidermal growth factor receptor (EGFR) modulator. This sequence
CC corresponds to one of the biomarkers whose levels of expression is
CC measured in the method of the invention.
XX
SQ Sequence 766 AA;

Query Match 97.7%; Score 3929; DB 8; Length 766;
Best Local Similarity 99.7%; Pred. No. 0;
Matches 726; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 13 SRKTYTLTDYLNKNTYRLKLSLRWISDHEYLKQENNLVFNAYGNSVFLNSTFDEF 72
DB |||||
QY 39 SRKTYTLTDYLNKNTYRLKLSLRWISDHEYLKQENNLVFNAYGNSVFLNSTFDEF 98
DB |||||
QY 73 GHSINDYSISPCQFILLEYNVVKWRHSYASYDIYDLNKRQLITEERIPNNTQVWTS 132
DB |||||
QY 99 GHSINDYSISPCQFILLEYNVVKWRHSYASYDIYDLNKRQLITEERIPNNTQVWTS 158
DB |||||
QY 133 PVGHKLAVYVWNNNDIVVKIEPNLPSYRITWTGKEDIYNGITDMVYEEVFSAYSLWNSP 192
DB |||||
QY 159 PVGHKLAVYVWNNNDIVVKIEPNLPSYRITWTGKEDIYNGITDMVYEEVFSAYSLWNSP 218
DB |||||
QY 193 NGTFPLAYAQFNDTEVPLEIYSYSDSLOYPKTVRVPYKAGAVNPTVKFFVNTDSLSS 252
DB |||||
QY 219 NGTFPLAYAQFNDTEVPLEIYSYSDSLOYPKTVRVPYKAGAVNPTVKFFVNTDSLSS 278
DB |||||
QY 253 VTNATSIQITAPASMLIGHYLCVDTWATQERISLQWLRRIONYSVMDICDYDESSGRWN 312
DB |||||
QY 279 VTNATSIQITAPASMLIGHYLCVDTWATQERISLQWLRRIONYSVMDICDYDESSGRWN 338
DB |||||
QY 313 CLVARQHIEMSTTGWVGRFRPSEPFTLDGNSFYKIIISNEGYRHICYFQIDKDKCTFIT 372
DB |||||
QY 339 CLVARQHIEMSTTGWVGRFRPSEPFTLDGNSFYKIIISNEGYRHICYFQIDKDKCTFIT 398
DB |||||
QY 373 KGTWEVIGIEALTSYLYIISNEYKMGPGGRNLYKIQLSDYTKVCLSCELNPERCQYYS 432
DB |||||
QY 399 KGTWEVIGIEALTSYLYIISNEYKMGPGGRNLYKIQLSDYTKVCLSCELNPERCQYYS 458
DB |||||
QY 433 VSFSKEAKYQYLRCSGPGPLTYTLHSSVNDKGLRVLEDNSALDKMLQVQWPSKKLDFTI 492
DB |||||
QY 459 VSFSKEAKYQYLRCSGPGPLTYTLHSSVNDKGLRVLEDNSALDKMLQVQWPSKKLDFTI 518
DB |||||
QY 493 LNETKFWYQMLPPHFDKSKYKYPDLLDVYAGPCSQKADTVFRLNWTATYLASTENIIVASF 552
DB |||||

Db 519 LNETKFWYQMLPPHFDKSKYKYPDLLDVYAGPCSQKADIVFRLNWTATYLASTENIIVASF 578
QY 553 DGRSGYQGDQKIMHAINRRLCTFEVBDQIEAARQFSKMGFVDNKRKIAIWGWSYGGYVTSM 612
Db 579 DGRSGYQGDQKIMHAINRRLCTFEVBDQIEAARQFSKMGFVDNKRKIAIWGWSYGGYVTSM 638
QY 613 VLGSQGVFKCGIAPVPSRWYDYVYTERYMGSLPTPEDNLDHYRNSVTMSRAENFKQV 672
Db 639 VLGSQGVFKCGIAPVPSRWYDYVYTERYMGSLPTPEDNLDHYRNSVTMSRAENFKQV 698
QY 673 EYLLIHGTADDNVHFQOQAQISKALVDGVDFQAMWYTDDEHGIASSTAHOHIYTHMSHF 732
Db 699 EYLLIHGTADDNVHFQOQAQISKALVDGVDFQAMWYTDDEHGIASSTAHOHIYTHMSHF 758
QY 733 IKQCFSLP 740
Db 759 IKQCFSLP 766

RESULT 31
AEB77579
ID AEB77579 standard; protein; 766 AA.
XX
AC AEB77579;
XX
DT 06-OCT-2005 (first entry)
XX
DE Human dipeptidyl peptidase IV enzyme - SEQ ID 1.
XX
KW autism; nontropic; asperger syndrome; enzyme; dipeptidyl peptidase IV.
XX
OS Homo sapiens.
XX
PN US2005170333-A1.
XX
PD 04-AUG-2005.
XX
PF 03-FEB-2004; 2004US-00770712.
XX
PR 03-FEB-2004; 2004US-00770712.
XX
PA (VOJD/) VOJDANI A.
XX
PI Vojdani A;
XX
DR WPI; 2005-562713/57.
XX
PT Determining etiology of autistic spectrum disorder in patient, by
PT determining level of infectious agent/toxic chemical/dietary protein
PT derived antigen in samples of patient, comparing it with normal level of
PT antigens of control subjects.
XX
PS Disclosure; SEQ ID NO 1; 89pp; English.
XX
CC The invention comprises a method of determining etiology of an autistic
CC spectrum disorder in a patient. The method involves determining the level
CC of an infectious agent, toxic chemical, or dietary protein derived
CC antigen, or their antibodies in samples of patient, and comparing
CC antigens/antibodies levels with normal levels of antigens/antibodies from
CC control subjects. The method of the invention is useful for determining
CC the etiology of an autistic spectrum disorder, such as autism, pervasive
CC development disorder and Asperger's syndrome. The present amino acid
CC sequence represents a human dipeptidyl peptidase IV enzyme that was used
CC in the exemplification of the invention.
XX
SQ Sequence 766 AA;

Query Match 97.7%; Score 3929; DB 9; Length 766;
Best Local Similarity 99.7%; Pred. No. 0;
Matches 726; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 13 SRKTYTLTDYLNKNTYRLKLSLRWISDHEYLKQENNLVFNAYGNSVFLNSTFDEF 72

QY 673 EYLLIHGTADDNVHFQOQAQISKALVDVGVDFQAMWYTDHGHGASSTAHQHIIYTHMSHF 732
DB 699 EYLLIHGTADDNVHFQOQAQISKALVDVGVDFQAMWYTDHGHGASSTAHQHIIYTHMSHF 758

QY 733 IKQCFSLP 740
DB 759 IKQCFSLP 766

RESULT 29

ID ABP55629 standard; protein; 766 AA.

AC ABP55629;

DT 20-FEB-2003 (first entry)

DE Human dpp4 protein sequence.

XX DPP10; dipeptidyl peptidase; prolololigopeptidase; enzyme; asthma;
KW antiinflammatory; antiasthmatic; antipsoriatic; antiarthritis;
KW antirheumatic; vaccine; gene therapy; inflammatory disease;
KW inflammatory bowel disease; atopy; rheumatoid arthritis; psoriasis;
KW chromosome 2q14.

XX Homo sapiens.

XX WO200286113-A2.

XX 31-OCT-2002.

XX 24-APR-2002; 2002WO-GB001987.

XX 24-APR-2001; 2001GB-00010044.

XX 24-APR-2001; 2001GB-00010046.

XX 12-OCT-2001; 2001GB-00024575.

XX 12-OCT-2001; 2001GB-00024594.

XX (ISIS-) ISIS INNOVATIONS LTD.

XX Cookson WOCM, Moffat MF, Allen M, Lench N;

XX WPI; 2003-093132/08.

XX New nucleic acid sequence comprising DPP10 mRNA, useful for the

XX manufacture of a medicament for regulating DPP10 protein expression or

XX for preventing or treating inflammatory disease e.g., inflammatory bowel

XX disease.

XX Example 2; Fig 23; 321pp; English.

XX The present invention describes a new isolated nucleic acid sequence (I)
CC comprising a DPP10 mRNA sequence. DPP10 is a dipeptidyl peptidase (also
CC known as prolololigopeptidase). (I) has antiinflammatory, antiasthmatic,
CC antipsoriatic, antiarthritis and antirheumatic activities, and can be
CC used in vaccines and gene therapy. A composition comprising (I) can be
CC used for the manufacture of a medicament for regulating DPP10 expression
CC or for preventing or treating inflammatory disease e.g., inflammatory
CC bowel disease, asthma, atopy, rheumatoid arthritis or psoriasis. (I) can
CC also be used in an assay for detecting or measuring DPP10 in a sample. A
CC host cell comprising (I) can be used for producing recombinant DPP10 gene
CC products, or in drug screening systems to identify agents for diagnosis
CC or treatment of individuals having or susceptible to inflammatory
CC disease. Human DPP10 is located on chromosome 2, more specifically
CC chromosome 2q14. ABQ84254 to ABQ84612 and ABP55569 to ABP55629 represent
CC sequences used in the exemplification of the present invention

XX Sequence 766 AA;

Query Match 97.7%; Score 3929; DB 6; Length 766;
Best Local Similarity 99.7%; Pred. No. 0;
Matches 726; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 13 SRKTYTLTDYLNKTYRLKXSLRWISDHEYLKQENNILVFNAEYGNSSVFLENSTFDEF 72
DB 39 SRKTYTLTDYLNKTYRLKXSLRWISDHEYLKQENNILVFNAEYGNSSVFLENSTFDEF 98
QY 73 GHSINDYSISPDGQFILLEYNVYKQWRHSYTSASYDIYDLNKRQLITBERIPNNTQWVTWS 132
DB 99 GHSINDYSISPDGQFILLEYNVYKQWRHSYTSASYDIYDLNKRQLITBERIPNNTQWVTWS 158
QY 133 PVGHKLAYVWNNDIYVKIEPNLPSYRITWTGKEDIYNGITDWTYEEVFPAYSALWWSF 192
DB 159 PVGHKLAYVWNNDIYVKIEPNLPSYRITWTGKEDIYNGITDWTYEEVFPAYSALWWSF 218
QY 193 NGTFLAYAQFNDTEVPLIEYSFYSDESLOYPKTVRVYPKAGAVNPTVKFPVNTDSLS 252
DB 219 NGTFLAYAQFNDTEVPLIEYSFYSDESLOYPKTVRVYPKAGAVNPTVKFPVNTDSLS 278
QY 253 VTNATSIQITAPASMLIGDHYLCVDTWATQERISLQWLRRIQNYSVMDICDYDESSGRWN 312
DB 279 VTNATSIQITAPASMLIGDHYLCVDTWATQERISLQWLRRIQNYSVMDICDYDESSGRWN 338
QY 313 CLVARQHIEMSTTGWVGRFRPSEPHFTLDGNSFYKIIISNEEGYRHICYFQIDKXCTFIT 372
DB 339 CLVARQHIEMSTTGWVGRFRPSEPHFTLDGNSFYKIIISNEEGYRHICYFQIDKXCTFIT 398
QY 373 KGTWEVIGIEALTSDYLYIISNEYKGMPPGGRNLYKIQLSDYTKVTCISCELNPERCOYS 432
DB 399 KGTWEVIGIEALTSDYLYIISNEYKGMPPGGRNLYKIQLSDYTKVTCISCELNPERCOYS 458
QY 433 VSFSEKAKYYQLRCSGFLPLYTLHSSVNDKGLRVLEDNSALDKMLQNVQMPSKLDPII 492
DB 459 VSFSEKAKYYQLRCSGFLPLYTLHSSVNDKGLRVLEDNSALDKMLQNVQMPSKLDPII 518
QY 493 LNETKFWYQMLPPHFDKSKYPLLLDVYAGPCSQKADTVFRLNWTATYLASTENIIVASF 552
DB 519 LNETKFWYQMLPPHFDKSKYPLLLDVYAGPCSQKADTVFRLNWTATYLASTENIIVASF 578
QY 553 DGRSGYGGDKIMHAINRRILGTREVEDOIEAARQFSKMGFVDNKRIAIWMGSGYGYVTSM 612
DB 579 DGRSGYGGDKIMHAINRRILGTREVEDOIEAARQFSKMGFVDNKRIAIWMGSGYGYVTSM 638
QY 613 VLGSGGVFKGIAVAPVSRWEYDYSVYTERYMGLEPTPEDNLHDYRNSTVMSRAENFKQV 672
DB 639 VLGSGGVFKGIAVAPVSRWEYDYSVYTERYMGLEPTPEDNLHDYRNSTVMSRAENFKQV 698
QY 673 EYLLIHGTADDNVHFQOQAQISKALVDVGVDFQAMWYTDHGHGASSTAHQHIIYTHMSHF 732
DB 699 EYLLIHGTADDNVHFQOQAQISKALVDVGVDFQAMWYTDHGHGASSTAHQHIIYTHMSHF 758
QY 733 IKQCFSLP 740
DB 759 IKQCFSLP 766
RESULT 30
ADQ80365
ID ADQ80365 standard; protein; 766 AA.
AC ADQ80365;
XX 21-OCT-2004 (first entry)
DT Dipeptidylpeptidase IV protein.
DE cytotatic; epidermal growth factor receptor modulator; identification;
KW therapeutic response; cancer; EGFR; biomarker.
XX Homo sapiens.
XX WO2004063709-A2.
XX 29-JUL-2004.

Db 219 NGTFLAYAQFNDTEVPLIEYSFSDLSQYKPTVRVPYKAGAVNPTVKFFVNTDSLSS 278
Qy 253 VTNATSIQITAPASMLIGDHVLCVDTWATQBRISLQWLRRIONYSVMDICDYDESSGRWN 312
Db 279 VTNATSIQITAPASMLIGDHVLCVDTWATQBRISLQWLRRIONYSVMDICDYDESSGRWN 338
Qy 313 CLVARQHIEMSTGTWVGRFRPSEPFTLDGNSFYKIIISNEEGYRHCYFQIDKDCCTFIT 372
Db 339 CLVARQHIEMSTGTWVGRFRPSEPFTLDGNSFYKIIISNEEGYRHCYFQIDKDCCTFIT 398
Qy 373 KGTWEVIGIEALTSYLYISNEYKMGPGGRNLYKIQLSDYTKVTCLSCELNPERCQYYS 432
Db 399 KGTWEVIGIEALTSYLYISNEYKMGPGGRNLYKIQLSDYTKVTCLSCELNPERCQYYS 458
Qy 433 VSFSKEAKYQYLRCSGPGPLVTLTHSSVNDKGLRVLEDSALDKMLQNVQMSKKLDFTI 492
Db 459 VSFSKEAKYQYLRCSGPGPLVTLTHSSVNDKGLRVLEDSALDKMLQNVQMSKKLDFTI 518
Qy 493 LNETKFWYQMLPPHFDKSKYPLLLDVYAGPCSKADTVFRLNWTYLASTENIIVASF 552
Db 519 LNETKFWYQMLPPHFDKSKYPLLLDVYAGPCSKADTVFRLNWTYLASTENIIVASF 578
Qy 553 DGRSGYQGDKIMHAINRRRLGTFFVEDQIEAARQFSKMGFVNDKRIAIWGSYGGYVTSM 612
Db 579 DGRSGYQGDKIMHAINRRRLGTFFVEDQIEAARQFSKMGFVNDKRIAIWGSYGGYVTSM 638
Qy 613 VLGSGGVFKGCIAPVPSRWYYSVYTERVYGLPTPEDNLDHYRNSVMSRAENFKOV 672
Db 639 VLGSGGVFKGCIAPVPSRWYYSVYTERVYGLPTPEDNLDHYRNSVMSRAENFKOV 698
Qy 673 EYLLIHGTADDNVHFQOQAISKALVDVGVDFQAMWYTDDEHGIIASSTAHOIYTHMSHF 732
Db 699 EYLLIHGTADDNVHFQOQAISKALVDVGVDFQAMWYTDDEHGIIASSTAHOIYTHMSHF 758
Qy 733 IKQCFSLP 740
Db 759 IKQCFSLP 766
RESULT 28
ADO19400
ID ADO19400 standard; protein; 766 AA.
XX ADO19400;
AC ADO19400;
XX
DT 12-AUG-2004 (first entry)
XX
DE Human PRO polypeptide #165.
XX
KW Human; PRO; immune related disorder; systemic lupus erythematosus;
KW rheumatoid arthritis; osteoarthritis; juvenile chronic arthritis;
KW systemic sclerosis; Sjogren's syndrome; vasculitis; sarcoidosis;
KW autoimmune haemolytic anaemia; autoimmune thrombocytopenia; thyroiditis;
KW diabetes mellitus; renal disease; demyelinating disease;
KW central nervous system; peripheral nervous system;
KW demyelinating polyneuropathy; Guillain-Barre syndrome;
KW chronic inflammatory demyelinating polyneuropathy.
XX
OS Homo sapiens.
XX
PN WO2004043361-A2.
XX
PD 27-MAY-2004.
XX
PF 06-NOV-2003; 2003WO-US035268.
XX
PR 08-NOV-2002; 2002US-0425235P.
XX
PA (GETH) GENENTECH INC.
XX
PI Fong S, Dennis K, Clark H, Chiu H, Schoenfeld J, Williams PM;
PI Wood WI, Wu TD;

XX WPI; 2004-420067/39.
DR N-PSDB; ADO19399.
XX Novel PRO polypeptide e.g., PRO69614, PRO71106, or PRO86388 useful for
PT creating an immune related disorder such as systemic lupus erythematosus,
PT rheumatoid arthritis, osteoarthritis, juvenile chronic arthritis or
PT spondyloarthritis.
XX
PS Claim 7; SEQ ID NO 330; 1731pp; English.
XX
CC The invention relates to human PRO polypeptides and the polynucleotides
CC encoding them. The polypeptides and polynucleotides are useful for
CC treating and diagnosing immune related disorders in mammals. The immune
CC related disorders include systemic lupus erythematosus, rheumatoid
CC arthritis, osteoarthritis, juvenile chronic arthritis, systemic
CC sclerosis, Sjogren's syndrome, vasculitis, sarcoidosis, autoimmune
CC haemolytic anaemia, autoimmune thrombocytopenia, thyroiditis, diabetes
CC mellitus, immune-mediated renal disease, demyelinating diseases of the
CC central or peripheral nervous system, demyelinating polyneuropathy,
CC Guillain-Barre syndrome and chronic inflammatory demyelinating
CC polyneuropathy. This sequence represents a human PRO polypeptide of the
CC invention.
XX
SQ Sequence 766 AA;
Query Match 97.8%; Score 3933; DB 8; Length 766;
Beat Local Similarity 99.9%; Pred. No. 0;
Matches 727; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy 13 SRKTYTLTDYLNKTYRLKLYSLRWISDHELYLYKQNNILVFNABYGNSSVPLENSTFDF 72
Db 39 SRKTYTLTDYLNKTYRLKLYSLRWISDHELYLYKQNNILVFNABYGNSSVPLENSTFDF 98
Qy 73 GHSINDYSISPDGQFILLEYNVVKWRHSYASVDIYDLNKRQLTEERIPNNTQVWTWS 132
Db 99 GHSINDYSISPDGQFILLEYNVVKWRHSYASVDIYDLNKRQLTEERIPNNTQVWTWS 158
Qy 133 PVGHKLAYVWNNDIYVKIEPNLPSYRITWTGKEDIYNGITDWDVYEEVFSALWMS 192
Db 159 PVGHKLAYVWNNDIYVKIEPNLPSYRITWTGKEDIYNGITDWDVYEEVFSALWMS 218
Qy 193 NGTFLAYAQFNDTEVPLIEYSFSDLSQYKPTVRVPYKAGAVNPTVKFFVNTDSLSS 252
Db 219 NGTFLAYAQFNDTEVPLIEYSFSDLSQYKPTVRVPYKAGAVNPTVKFFVNTDSLSS 278
Qy 253 VTNATSIQITAPASMLIGDHVLCVDTWATQBRISLQWLRRIONYSVMDICDYDESSGRWN 312
Db 279 VTNATSIQITAPASMLIGDHVLCVDTWATQBRISLQWLRRIONYSVMDICDYDESSGRWN 338
Qy 313 CLVARQHIEMSTGTWVGRFRPSEPFTLDGNSFYKIIISNEEGYRHCYFQIDKDCCTFIT 372
Db 339 CLVARQHIEMSTGTWVGRFRPSEPFTLDGNSFYKIIISNEEGYRHCYFQIDKDCCTFIT 398
Qy 373 KGTWEVIGIEALTSYLYISNEYKMGPGGRNLYKIQLSDYTKVTCLSCELNPERCQYYS 432
Db 399 KGTWEVIGIEALTSYLYISNEYKMGPGGRNLYKIQLSDYTKVTCLSCELNPERCQYYS 458
Qy 433 VSFSKEAKYQYLRCSGPGPLVTLTHSSVNDKGLRVLEDSALDKMLQNVQMSKKLDFTI 492
Db 459 VSFSKEAKYQYLRCSGPGPLVTLTHSSVNDKGLRVLEDSALDKMLQNVQMSKKLDFTI 518
Qy 493 LNETKFWYQMLPPHFDKSKYPLLLDVYAGPCSKADTVFRLNWTYLASTENIIVASF 552
Db 519 LNETKFWYQMLPPHFDKSKYPLLLDVYAGPCSKADTVFRLNWTYLASTENIIVASF 578
Qy 553 DGRSGYQGDKIMHAINRRRLGTFFVEDQIEAARQFSKMGFVNDKRIAIWGSYGGYVTSM 612
Db 579 DGRSGYQGDKIMHAINRRRLGTFFVEDQIEAARQFSKMGFVNDKRIAIWGSYGGYVTSM 638
Qy 613 VLGSGGVFKGCIAPVPSRWYYSVYTERVYGLPTPEDNLDHYRNSVMSRAENFKOV 672
Db 639 VLGSGGVFKGCIAPVPSRWYYSVYTERVYGLPTPEDNLDHYRNSVMSRAENFKOV 698

QY 73 GHSINDYSISPDGQFILLEYNVVKQWRHSYASVDIYDLNKRQLITEERIPNNTQWTS 132
DB 99 GHSINDYSISPDGQFILLEYNVVKQWRHSYASVDIYDLNKRQLITEERIPNNTQWTS 158
QY 133 PVGHKLAYWNNDIYVKIEPNLPSYRITWTGKEDIYNGITDWVYEEVFSAYSALWSP 192
DB 159 PVGHKLAYWNNDIYVKIEPNLPSYRITWTGKEDIYNGITDWVYEEVFSAYSALWSP 218
QY 193 NGTFLAYAQFNDTEVPLIEYFYSDESLOYPKTVRVPYKAGAVNPTVFFVWNTDLSL 252
DB 219 NGTFLAYAQFNDTEVPLIEYFYSDESLOYPKTVRVPYKAGAVNPTVFFVWNTDLSL 278
QY 253 VTNATSIQITAPASMLIGDHYLDCVWTATQBRISLOWLRRIONTSVMDICDYDESSGRWN 312
DB 279 VTNATSIQITAPASMLIGDHYLDCVWTATQBRISLOWLRRIONTSVMDICDYDESSGRWN 338
QY 313 CLVARQHIEMSTTGWVGRFRSEPHFTLDGNSFYKIIISNEEGYRHICYFQIDKDCFTIT 372
DB 339 CLVARQHIEMSTTGWVGRFRSEPHFTLDGNSFYKIIISNEEGYRHICYFQIDKDCFTIT 398
QY 373 KGTWEVIGIEALTSDLYYIISNEYKMGPGGRNLYKIQLSDYTKVTCLSCELNPERCQYYS 432
DB 399 KGTWEVIGIEALTSDLYYIISNEYKMGPGGRNLYKIQLSDYTKVTCLSCELNPERCQYYS 458
QY 433 VFSFSEAKYQOLRCGPGPLPLYTLHSSVNDKGLRVLEDNSALDKMLQNVQMPKSLDPII 492
DB 459 VFSFSEAKYQOLRCGPGPLPLYTLHSSVNDKGLRVLEDNSALDKMLQNVQMPKSLDPII 518
QY 493 LNETKFWYQMLPPHFDKSKYPLLLDVYAGPCQKADTVFRLNWTATYLASTENIIVASF 552
DB 519 LNETKFWYQMLPPHFDKSKYPLLLDVYAGPCQKADTVFRLNWTATYLASTENIIVASF 578
QY 553 DGRSGSGVQGDKIMHAINRRLGTPEVEQIEAARQFSKMGFVDNKRRIALWGSYGYVTSM 612
DB 579 DGRSGSGVQGDKIMHAINRRLGTPEVEQIEAARQFSKMGFVDNKRRIALWGSYGYVTSM 638
QY 613 VLGSAGSVKFGKGIAPVSRWEYDVSVTERYMGILPTPEDNLDHYRNSVMSRAENPKQV 672
DB 639 VLGSAGSVKFGKGIAPVSRWEYDVSVTERYMGILPTPEDNLDHYRNSVMSRAENPKQV 698
QY 673 EYLLIHGTADDNVHFQQAQISKALVDVGVDFQAMWYTDDEPHGIASSTAHOIYTHMSHF 732
DB 699 EYLLIHGTADDNVHFQQAQISKALVDVGVDFQAMWYTDDEPHGIASSTAHOIYTHMSHF 758
QY 733 IKQCFSLP 740
DB 759 IKQCFSLP 766

RESULT 27

ADN39604
ID ADN39604 standard; protein; 766 AA.

AC ADN39604;
XX
XX
DT 17-JUN-2004 (first entry)
DE DE
DE DE
XX
XX
KW Human; differential expression; cancer; angiogenic disorder;
KW fibrotic disorder; psoriasis; ischaemia; heart disease; atherosclerosis;
KW inflammatory disease; autoimmune disease;
KW retinal neovascularisation syndrome; scarring; uterine fibroid;
KW detection; diagnosis; prognosis; drug screening; drug targeting;
KW wound healing; contraception; cytostatic; cardiast; immunomodulatory;
KW vulnetary; gene therapy; vaccine.
XX
OS Homo sapiens.
XX
PN WO2003042661-A2.
XX
PD 22-MAY-2003.

XX PF 13-NOV-2002; 2002WO-US036810.
XX PR 13-NOV-2001; 2001US-0350666P.
PR 21-NOV-2001; 2001US-0332464P.
PR 29-NOV-2001; 2001US-0334393P.
PR 03-DEC-2001; 2001US-0335394P.
PR 14-DEC-2001; 2001US-0340376P.
PR 08-JAN-2002; 2002US-0347211P.
PR 10-JAN-2002; 2002US-0347349P.
PR 08-FEB-2002; 2002US-035250P.
PR 13-FEB-2002; 2002US-0356714P.
PR 20-FEB-2002; 2002US-0359077P.
PR 29-MAR-2002; 2002US-036809P.
PR 04-APR-2002; 2002US-0370110P.
PR 12-APR-2002; 2002US-0372246P.
PR 05-JUN-2002; 2002US-0386614P.
PR 16-JUL-2002; 2002US-0396839P.
PR 22-JUL-2002; 2002US-0397775P.
PR 22-JUL-2002; 2002US-0397845P.
PR 09-SEP-2002; 2002US-0409450P.
XX
PA (EOSB-) EOS BIOTECHNOLOGY INC.
PI Afar D, Aziz N, Gineburg WM, Gish KC, Glynn R, Hevezi PA;
PI Mack DH, Murray R, Watson SR, Wilson KE, Zlotnik A;
XX
DR WPI; 2003-468649/44.
DR N-PSDB; ADN39603.
XX
PT Determining the presence or absence of a pathological cell in a patient,
PT useful for diagnosing, prognosing or treating cancer, comprises detecting
PT a nucleic acid in a biological sample.
XX
PS Claim 12; SEQ ID NO A204; 1385pp; English.
XX
CC The invention relates to nucleic acids and proteins (ADN38683-ADN40064)
CC whose expression is upregulated or downregulated in specific cancers or
CC other diseases such as angiogenic or fibrotic disorders, and to methods
CC of determining the presence or absence of a pathological cell in a
CC patient by detecting a nucleic acid at least 80% identical to those of
CC the invention or by detecting a polypeptide of the invention. The
CC invention also relates to expression vectors and host cells comprising a
CC nucleic acid of the invention; antibodies which specifically bind a
CC polypeptide of the invention; use of such antibodies for drug targeting;
CC and methods of screening for modulators of activity or expression of the
CC polypeptides and nucleic acids. The nucleic acids, polypeptides,
CC antibodies and methods are useful for diagnosing, prognosing and treating
CC cancer and other conditions such as psoriasis, ischaemia, heart disease,
CC atherosclerosis, inflammatory diseases, autoimmune diseases, retinal
CC neovascularisation syndromes, scarring and uterine fibroids. They may
CC also be useful in wound healing and in contraception. The present
CC sequence represents a polypeptide of the invention.
XX
SQ Sequence 766 AA;

Query Match 97.8%; Score 3933; DB 7; Length 766;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 727; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 13 SRKTYTLTDYKNTYRLKLYSLRWISDHEVLYKQENNLVFNAYGNSVFLNSTDEF 72
DB 39 SRKTYTLTDYKNTYRLKLYSLRWISDHEVLYKQENNLVFNAYGNSVFLNSTDEF 98
QY 73 GHSINDYSISPDGQFILLEYNVVKQWRHSYASVDIYDLNKRQLITEERIPNNTQWTS 132
DB 99 GHSINDYSISPDGQFILLEYNVVKQWRHSYASVDIYDLNKRQLITEERIPNNTQWTS 158
QY 133 PVGHKLAYWNNDIYVKIEPNLPSYRITWTGKEDIYNGITDWVYEEVFSAYSALWSP 192
DB 159 PVGHKLAYWNNDIYVKIEPNLPSYRITWTGKEDIYNGITDWVYEEVFSAYSALWSP 218
QY 193 NGTFLAYAQFNDTEVPLIEYFYSDESLOYPKTVRVPYKAGAVNPTVFFVWNTDLSL 252

CC antidiabetic, hypotensive, nephrotropic, antiarthritic and
CC antiinflammatory activities, and can be used in gene therapy. (M1) is
CC useful in targeting pharmaceuticals or other therapeutics to specific
CC tissues using tissue-specific endothelial membrane proteins. A
CC therapeutic complex may be used to treat or diagnose any disease for
CC which a tissue- or organ-specific treatment would be efficacious, such as
CC in cases of infections (e.g. bacterial, viral, fungal and parasitic),
CC epilepsy, schizophrenia, cancer, Parkinson's disease, Alzheimer's
CC disease, asthma, diabetes, hypertension, polycystic kidney disease,
CC arthritis, and inflammatory bowel disease. The present sequence
CC represents a human liver dipeptidyl peptidase IV (DPP4), which is used in
CC an example from the present invention
XX
SQ Sequence 766 AA;

Query Match 97.8%; Score 3933; DB 6; Length 766;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 727; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 13 SRKTYTLTDYLNKNTYRLKLYSLRWISDHELYLKQENNLVFNARYGNSVFLNSTFDEF 72
DB 39 SRKTYTLTDYLNKNTYRLKLYSLRWISDHELYLKQENNLVFNARYGNSVFLNSTFDEF 98
QY 73 GHSINDYSISPGQFILLIENYVVKQWRHSYTASYDIYDLNFKQLITEERIPNNTQVWTWS 132
DB 99 GHSINDYSISPGQFILLIENYVVKQWRHSYTASYDIYDLNFKQLITEERIPNNTQVWTWS 158
QY 133 PVGHKLAVYWNNDIYVKLEPNLPSYRITWTGKEDIYNGITDWMVEEVEFSAYSALWSP 192
DB 159 PVGHKLAVYWNNDIYVKLEPNLPSYRITWTGKEDIYNGITDWMVEEVEFSAYSALWSP 218
QY 193 NGTFLAYAQFNDTEVPLIEYSFYSDLSQYPTKTRVPYKAGAVNPTVKFFVNTDSLSS 252
DB 219 NGTFLAYAQFNDTEVPLIEYSFYSDLSQYPTKTRVPYKAGAVNPTVKFFVNTDSLSS 278
QY 253 VTNATSIQTAPASMLIGHYICDVTWATQERISLOWLARIQNSYMDICDVEDSGRW 312
DB 279 VTNATSIQTAPASMLIGHYICDVTWATQERISLOWLARIQNSYMDICDVEDSGRW 338
QY 313 CLVAVQHIEMSTGTVGFRPSEPFTLDGNSFYKLIISNEEGYRHICYFQIDKDCFTFI 372
DB 339 CLVAVQHIEMSTGTVGFRPSEPFTLDGNSFYKLIISNEEGYRHICYFQIDKDCFTFI 398
QY 373 KGTWEVIGIEALTSYLYIISNEYKMGPGGRNLYKIQSDYTKVTCLSCELNPERCQYYS 432
DB 399 KGTWEVIGIEALTSYLYIISNEYKMGPGGRNLYKIQSDYTKVTCLSCELNPERCQYYS 458
QY 433 VFSFKEAKYQYLRCSGPGPLTYTLHSSVNDKGLRVLEDNSALDKMLQNVQMPSKKLDFTI 492
DB 459 VFSFKEAKYQYLRCSGPGPLTYTLHSSVNDKGLRVLEDNSALDKMLQNVQMPSKKLDFTI 518
QY 493 LNETKFWYQMLPPHFDKSKYPLLDVYAGPCOKADTVPRLNWATYLASTENIIVASF 552
DB 519 LNETKFWYQMLPPHFDKSKYPLLDVYAGPCOKADTVPRLNWATYLASTENIIVASF 578
QY 553 DGRGSGYQGDKIMHAINRLRGTFEVEDQIEAARQFSKMGFVNDKRIAINGWYGGYVTSM 612
DB 579 DGRGSGYQGDKIMHAINRLRGTFEVEDQIEAARQFSKMGFVNDKRIAINGWYGGYVTSM 638
QY 613 VLGSFGVFKCIGIAPVSRWEYSDYTYRYVGLPTPEDNLDHYRNSTVMSRAENFKQV 672
DB 639 VLGSFGVFKCIGIAPVSRWEYSDYTYRYVGLPTPEDNLDHYRNSTVMSRAENFKQV 698
QY 673 EYLLHGTADDNVHFOQSAQISKALVDGVDFQAMWYTDDEHGIASSTAHQHYTHMSHF 732
DB 699 EYLLHGTADDNVHFOQSAQISKALVDGVDFQAMWYTDDEHGIASSTAHQHYTHMSHF 758
QY 733 IKQCFSLP 740
DB 759 IKQCFSLP 766

RESULT 26

ADD14045

ID ADD14045 standard; protein; 766 AA.

XX AC ADD14045;

XX DT 01-JAN-2004 (first entry)

XX DE Human src biomarker polypeptide SEQ ID NO:234.

XX KW predictor set; protein tyrosine kinase activity modulator;

XX KW protein tyrosine kinase pathway; protein tyrosine kinase; cytostatic;

XX KW gene therapy; drug sensitivity; genetic profile; cancer; human.

XX OS Homo sapiens.

XX PN WO2003062395-A2.

XX PD 31-JUL-2003.

XX PF 17-JAN-2003; 2003WO-US001981.

XX PR 18-JAN-2002; 2002US-0350061P.

XX PA (BRIM) BRISTOL-MYERS SQUIBB CO.

XX PI Huang F, Fairchild CR, Lee FY, Shaw P;

XX DR WPI; 2003-636735/60.

XX DR N-PSDB; ADD14640.

XX PT New polynucleotides and polypeptides for predicting the activity of
XX compounds that interact with protein tyrosine kinases and/or protein
XX tyrosine kinase pathways.

XX PS Claim 10; SEQ ID NO 234; 139pp; English.

XX CC The present invention describes a predictor set comprising a plurality of
XX polynucleotides or polypeptides whose expression pattern is predictive of
XX the response of cells to treatment with a compound that modulates protein
XX tyrosine kinase activity or members of the protein tyrosine kinase
XX pathway. Also described: (1) predicting whether a compound is capable of
XX modulating the activity of cells, comprising obtaining a sample of cells,
XX determining whether the cells express a plurality of markers, and
XX correlating the expression of the markers to the compound's ability to
XX modulate the activity of the cells; (2) a plurality of cell lines for
XX identifying polynucleotides and polypeptides whose expression levels
XX correlate with compound sensitivity or resistance of cells associated
XX with a disease state; and (3) identifying polynucleotides and
XX polypeptides that predict compound sensitivity or resistance of cells
XX associated with a disease state, comprising subjecting the plurality of
XX cell lines to one or more compounds, analysing the expression pattern of
XX a microarray of polynucleotides or polypeptides, and selecting
XX polynucleotides or polypeptides that predict the sensitivity or
XX resistance of cells associated with a disease state by using the
XX expression pattern of the microarray. The polynucleotides and
XX polypeptides have cytostatic activities, and can be used in gene therapy.
XX The polynucleotides and polypeptides are useful in predicting the
XX activity of compounds that interact with protein tyrosine kinases and/or
XX protein tyrosine kinase pathways. These may be used in determining drug
XX sensitivity in patients to allow the development of individualized
XX genetic profiles which aid in treating diseases and disorders (e.g.
XX cancer) based on patient response at a molecular level. The present
XX sequence is used in the exemplification of the present invention.

SQ Sequence 766 AA;

? Query Match 97.8%; Score 3933; DB 7; Length 766;

Best Local Similarity 99.9%; Pred. No. 0;

Matches 727; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 13 SRKTYTLTDYLNKNTYRLKLYSLRWISDHELYLKQENNLVFNARYGNSVFLNSTFDEF 72

DB 39 SRKTYTLTDYLNKNTYRLKLYSLRWISDHELYLKQENNLVFNARYGNSVFLNSTFDEF 98

Db 669 EYLLIHGTADDNVHFQQAQISKALVDVGVDFQAMWYTDDEHGIIASSTAHOHIYTHMSHF 728

Qy 733 IKQCFSLP 740

Db 729 IKQCFSLP 736

RESULT 23

ABG61910

ID ABG61910 standard; protein; 766 AA.

XX ABG61910;

DT 15-AUG-2002 (first entry)

DE Prostate cancer-associated protein #111.

DE Prostate cancer; prostate tumour tissue; human; mammal; cytostatic.

XX Mammalia.

XX WO200230268-A2.

PN 18-APR-2002.

XX 12-OCT-2001; 2001WO-US032045.

XX 13-OCT-2000; 2000US-00687576.

PR 08-DEC-2000; 2000US-00733288.

PR 08-DEC-2000; 2000US-00733742.

PR 24-JAN-2001; 2001US-0263957P.

PR 16-MAR-2001; 2001US-0276791P.

PR 16-MAR-2001; 2001US-0276888P.

PR 06-APR-2001; 2001US-0281922P.

PR 24-APR-2001; 2001US-0286214P.

PR 30-APR-2001; 2001US-00847046.

PR 04-MAY-2001; 2001US-0288589P.

XX (EOSB-) EOS BIOTECHNOLOGY INC.

XX Gish KC, Mack DH, Wilson KE, Afar D, Hevezi P;

XX WPI; 2002-471335/50.

DR N-PSDB; ABK92227.

XX Detecting a prostate cancer-associated transcript in a cell in a patient,

PT useful for diagnosing prostate cancer (PC) or screening modulators of PC,

PT by determining if prostate cancer-associated genes are expressed in a

PT prostate tissue.

XX Claim 27; Page 393; 436pp; English.

XX The present invention relates to methods of detecting a prostate cancer-

XX associated transcript in a cell from a patient. The method comprises

XX contacting a biological sample from the patient with prostate cancer-

XX associated polynucleotides (designated PC genes) that selectively

XX hybridize to a sequence that is at least 80% identical to them. The

XX prostate cancer-associated polynucleotide sequences are differentially

XX expressed in prostate tumour tissue or in prostate cancer and are derived

XX from the tissues of various organisms such as humans or other mammals

XX (e.g. mice, sheep and dogs). The methods of the invention are useful for

XX diagnosing and treating prostate cancer in mammals. The prostate cancer-

XX associated genes are useful for diagnosing or treating prostate cancer,

XX as well as for identifying modulators of prostate cancer or agents that

XX inhibit prostate cancer. The nucleic acid sequences are particularly

XX useful in gene therapy, as a vaccine or in antisense applications.

XX ABG61800-ABG61944 represent prostate cancer-associated proteins

XX Sequence 766 AA;

Query Match 97.8%; Score 3933; DB 5; Length 766;

Best Local Similarity 99.9%; Pred. No. 0;

Matches 727; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 13 SRKTYTLTDYLNKTYRLKLYSLRWISDHEYLKQENNILVFNAEYGNSSVFLNSTFDEF 72

Db 39 SRKTYTLTDYLNKTYRLKLYSLRWISDHEYLKQENNILVFNAEYGNSSVFLNSTFDEF 98

Qy 73 GHSINDYSISPDGQFILLLEYNVVKQWRSYTSYDIYDLNKRQLITEIRIPNNTQWVTWS 132

Db 99 GHSINDYSISPDGQFILLLEYNVVKQWRSYTSYDIYDLNKRQLITEIRIPNNTQWVTWS 158

Qy 133 PVGHKLAVVWNDIYVKIEPNLPSVRIITWTKGEDIYNGITDWYVEEVFSAYSALWSP 192

Db 159 PVGHKLAVVWNDIYVKIEPNLPSVRIITWTKGEDIYNGITDWYVEEVFSAYSALWSP 218

Qy 193 NGTFLAYAQFNDTEVPLIEYSFYSDSLQYPKTVRVPYKAGAVNPTVKFFVNTDSLSS 252

Db 219 NGTFLAYAQFNDTEVPLIEYSFYSDSLQYPKTVRVPYKAGAVNPTVKFFVNTDSLSS 278

Qy 253 VTNATSIQITAPASMLIGDHYLDCVWTATQRIISLOWLRRIONYSVMIDICDYDESSGRWN 312

Db 279 VTNATSIQITAPASMLIGDHYLDCVWTATQRIISLOWLRRIONYSVMIDICDYDESSGRWN 338

Qy 313 CLVARQHIEMSTTGWGFRFPSEPHFTLDGNSFYKIIISNEEGYRHCYFQIDKKDCTFIT 372

Db 339 CLVARQHIEMSTTGWGFRFPSEPHFTLDGNSFYKIIISNEEGYRHCYFQIDKKDCTFIT 398

Qy 373 KGTWEVIGIEALTSDLYYIISNEYKMGPGGRNLYKIQLSDYTKVTCLSCELNPERCQYVS 432

Db 399 KGTWEVIGIEALTSDLYYIISNEYKMGPGGRNLYKIQLDYTKVTCLSCELNPERCQYVS 458

Qy 433 VFSKEAKYQIQRCSGPGPLPYTLHSSVNDKGLRVLENSALDKMLQNVQMPESKLDPII 492

Db 459 VFSKEAKYQIQRCSGPGPLPYTLHSSVNDKGLRVLENSALDKMLQNVQMPESKLDPII 518

Qy 493 LNETKFWYQMLPDPHFDKSKYPLLLDVYAGPCSKADTVPRLNWATYLASTENIIVASF 552

Db 519 LNETKFWYQMLPDPHFDKSKYPLLLDVYAGPCSKADTVPRLNWATYLASTENIIVASF 578

Qy 553 DGRSGYQGDKIMHAINRRLGTFFVEDQIEAARQFSKMGFVDNKRRIAWGNSYGGYVTSM 612

Db 579 DGRSGYQGDKIMHAINRRLGTFFVEDQIEAARQFSKMGFVDNKRRIAWGNSYGGYVTSM 638

Qy 613 VLGSQGVFKGIAVAPVSRWEYDVSVTERYMGSLPTPEDNLDHYNSTVMSRAENFKQV 672

Db 639 VLGSQGVFKGIAVAPVSRWEYDVSVTERYMGSLPTPEDNLDHYNSTVMSRAENFKQV 698

Qy 673 EYLLIHGTADDNVHFQQAQISKALVDVGVDFQAMWYTDDEHGIIASSTAHOHIYTHMSHF 732

Db 699 EYLLIHGTADDNVHFQQAQISKALVDVGVDFQAMWYTDDEHGIIASSTAHOHIYTHMSHF 758

Qy 733 IKQCFSLP 740

Db 759 IKQCFSLP 766

RESULT 24

AAO15555

ID AAO15555 standard; protein; 766 AA.

XX AC AAO15555;

XX 24-OCT-2002 (first entry)

XX Human dipeptidyl peptidase IV (DPP IV).

XX Human; angiodemic condition; angiotensin converting enzyme; ACE;

XX vasopeptidase inhibitor; dipeptidyl peptidase IV; aminopeptidase P;

XX DPP IV; aminopeptidase P; APP; hypertension; diabetes; cardiac disease;

XX renal disease; enzyme.

XX Homo sapiens.

XX WO200259343-A2.

XX XX

QY 613 VLGSQGVKCGIAVAPVSRWEYDVSVYTERYMGLEPTPEDNLDHYRNVSTVMSRAENFKQV 672
 Db 639 VLGSQGVKCGIAVAPVSRWEYDVSVYTERYMGLEPTPEDNLDHYRNVSTVMSRAENFKQV 698
 QY 673 EYLLHGTADDNVHFQQAQISKALVDVGVDFQAMWYTDDEHGHTASSTAHOHIYTHMSHF 732
 Db 699 EYLLHGTADDNVHFQQAQISKALVDVGVDFQAMWYTDDEHGHTASSTAHOHIYTHMSHF 758
 QY 733 IKQCFSLP 740
 Db 759 IKQCFSLP 766
 RESULT 21
 AEB94223
 ID AEB94223 standard; protein; 766 AA.
 XX
 AC AEB94223;
 XX
 XX 06-OCT-2005 (first entry)
 XX
 DE CD26/dipeptidyl peptidase IV (DPPIV) SEQ ID NO:66.
 XX
 XX immune inhibition; fibroblast activation protein alpha dimer;
 KW FAP alpha dimer; guillain barre syndrome; antiinflammatory; cns-gen.;
 KW immune disorder; neurological disease; autoimmune disease;
 KW immunosuppressive; graft versus host disease; transplant rejection;
 KW endotoxic shock; osteoarthritis; antiarthritic; osteopathic;
 KW musculoskeletal disease; allergy; antiallergic; asthma; antiasthmatic;
 KW inflammation; respiratory disease; atherosclerosis; antiarteriosclerotic;
 KW cardiovascular disease; metabolic disorder; hashimoto disease;
 KW antithyroid; endocrine disease; inflammatory bowel disease;
 KW antinflammatory; gastrointestinal-gen.; gastrointestinal disease;
 KW rheumatoid arthritis; antirheumatic; multiple sclerosis; neuroprotective;
 KW autoimmune hepatitis; antiinflammatory; hepatotropic;
 KW systemic lupus erythematosus; dermatological; dermatological disease;
 KW uveitis; ophthalmological; autoimmune hemolytic anemia; antianemic;
 KW hematological disease; rheumatic fever; antipyretic; Crohns disease;
 KW psoriasis; antipsoriatic; graves disease; antithyroid;
 KW respiratory syncytial virus infection; respiratory-gen.; virucide;
 KW CD26 dipeptidyl peptidase IV; DPPIV.
 XX
 XX Homo sapiens.
 OS
 XX
 PN WO2005071073-A1.
 XX
 XX 04-AUG-2005.
 PD
 XX
 PF 10-JAN-2005; 2005WO-US000709.
 XX
 XX 09-JAN-2004; 2004US-0535577P.
 PR
 XX (POIN-) POINT THERAPEUTICS INC.
 PA
 XX Mclean PA, Jones B, Miller GT, Jesson MI;
 PI
 XX WPI; 2005-564220/57.
 DR
 XX
 XX Down-regulating an immune response comprises administering to a subject
 PT in need a fibroblast activation protein (FAP) alpha dimer enzyme in an
 PT amount effective to down-regulate an immune response.
 XX
 XX Disclosure; SEQ ID NO 66; 177pp; English.
 PS
 XX
 XX The invention relates to a method of down-regulating an immune response,
 CC which comprises administering to a subject a fibroblast activation
 CC protein (FAP) alpha dimer enzyme in an amount effective to down-regulate
 CC an immune response. Also included are the following: a composition
 CC comprising a FAP alpha dimer enzyme in a pharmaceutically acceptable
 CC carrier, where the composition is sterile and lacks an adjuvant; a
 CC composition comprising a FAP alpha dimer enzyme in a pharmaceutically
 CC acceptable carrier, and a non-adjuvant second agent; a composition
 CC comprising a FAP alpha dimer enzyme comprising an amino acid substitution

CC of A657D; and a composition comprising a FAP alpha dimer enzyme lacking
 CC amino acids 269-448 and comprising amino acids 269-448 from mouse FAP.
 CC The method further comprises administering to the subject a second agent.
 CC The second agent is an anti-inflammatory agent, immunosuppressant, or
 CC anti-infective agent such as antibacterial, antiviral, antifungal, anti-
 CC parasitic or anti-mycobacterial agent. The FAP alpha dimer enzyme is wild
 CC type FAP alpha dimer enzyme. The FAP alpha dimer enzyme is a truncation
 CC mutant. The FAP alpha dimer enzyme is a fusion or chimera protein. The
 CC FAP alpha dimer enzyme is a heterodimer of a FAP alpha monomer and a
 CC DPPIV/CD26 monomer. The FAP alpha dimer enzyme comprises an amino acid
 CC substitution relative to wild type FAP alpha dimer. The amino acid
 CC domain, or an N-linked glycosylation site and alters disulfide bond
 CC formation. The immune response is an especially an IL-1 mediated
 CC condition, abnormal immune response selected from inflammation,
 CC autoimmune disease, sepsis, graft versus host disease, transplant
 CC rejection, toxic shock syndrome, allergy, asthma, atherosclerosis,
 CC osteoarthritis, and Guillain-Barre's syndrome. The abnormal immune
 CC response is subsequent to an infection, such as an RSV infection. The
 CC autoimmune disease is selected from C, autoimmune thyroiditis, systemic
 CC lupus erythematosus (SLE), uveitis, hemolytic anemias, rheumatic fever,
 CC Crohn's disease, Guillain-Barre's syndrome, psoriasis, Graves' disease,
 CC myasthenia gravis, glomerulonephritis, autoimmune hepatitis and multiple
 CC sclerosis. The subject does not have cancer or a predisposition to
 CC cancer. The present sequence represents the amino acid sequence of human
 CC CD26/dipeptidyl peptidase IV (DPPIV).
 XX
 SQ Sequence 766 AA;

Query Match 98.0%; Score 3939; DB 9; Length 766;
 Best Local Similarity 100.0%; Pred. No. 0;
 Matches 728; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 13 SRKYTLTDYLNKTYRLKLYSLRWISDHEYLKQENNLVFNNAEYGNVSFLNSTFDEF 72
 Db 39 SRKYTLTDYLNKTYRLKLYSLRWISDHEYLKQENNLVFNNAEYGNVSFLNSTFDEF 98
 QY 73 GHSINDYSISPDGQFILLEYNVVKQWRHSYASYDIYDLNKKQLTEERI PNTQVTTWS 132
 Db 99 GHSINDYSISPDGQFILLEYNVVKQWRHSYASYDIYDLNKKQLTEERI PNTQVTTWS 158
 QY 133 PVGHKLAVVWNNDIYVKIEPNLPSYRIWTGKEDIYNGITDWTVEEVEFSAYSAWNSP 192
 Db 159 PVGHKLAVVWNNDIYVKIEPNLPSYRIWTGKEDIYNGITDWTVEEVEFSAYSAWNSP 218
 QY 193 NGTFLAYAQFNDTEVPLIEYFSYDESLOYPKTVRPYKAGAVNPTVKFFVNTDSLSS 252
 Db 219 NGTFLAYAQFNDTEVPLIEYFSYDESLOYPKTVRPYKAGAVNPTVKFFVNTDSLSS 278
 QY 253 VTNATSIQITAPASMLIGDHVLCVTVWATQERISIQWLRRRIONYSVMDICDYDESSGRWN 312
 Db 279 VTNATSIQITAPASMLIGDHVLCVTVWATQERISIQWLRRRIONYSVMDICDYDESSGRWN 338
 QY 313 CLVARQHIEMSTTGWGRFRPSEPHFTLDGNSFYKIIISNEEGYRHCYFQIDKKDCTFT 372
 Db 339 CLVARQHIEMSTTGWGRFRPSEPHFTLDGNSFYKIIISNEEGYRHCYFQIDKKDCTFT 398
 QY 373 KGTWEVIGIEALTSYLYVISNEYKMGPGGRNLYKIQLSDTYKVTCLSCELNPERCOYYS 432
 Db 399 KGTWEVIGIEALTSYLYVISNEYKMGPGGRNLYKIQLSDTYKVTCLSCELNPERCOYYS 458
 QY 433 VSFSKEAKYQLRCSGPGGLPLYTLTHSSVNDKGLRVLEDNALDKMLQNVQMPSSKLDFTI 492
 Db 459 VSFSKEAKYQLRCSGPGGLPLYTLTHSSVNDKGLRVLEDNALDKMLQNVQMPSSKLDFTI 518
 QY 493 LNETKFWQIMILPHFDKSKKYPILLDYVYAGSCQKADTVFRLNWTATYLASTENIIVASF 552
 Db 519 LNETKFWQIMILPHFDKSKKYPILLDYVYAGSCQKADTVFRLNWTATYLASTENIIVASF 578
 QY 553 DGRSGYQGDKIMHAINRRLGTFEVEDQIEAARQFSKMGFVDNKRITAIWGSYGGVVTSM 612
 Db 579 DGRSGYQGDKIMHAINRRLGTFEVEDQIEAARQFSKMGFVDNKRITAIWGSYGGVVTSM 638

Db 39 SRKTTLTLDYLNKTYRLKLSLRWISDHEYLKQENNLVFNABYGNSSVFLNSTPDEF 98
Qy 73 GHSINDYSIPDQGFILLEYVVKQWRHSYTSYDIYDLNKRQLITEERIPNNTQWTVWS 132
Db 99 GHSINDYSIPDQGFILLEYVVKQWRHSYTSYDIYDLNKRQLITEERIPNNTQWTVWS 158
Qy 133 PVGHKLAYVWNNNDIYVKIEPNLPSYRIITWTGKEDIYNGITDWWYEEVFSAYSALWWS 192
Db 159 PVGHKLAYVWNNNDIYVKIEPNLPSYRIITWTGKEDIYNGITDWWYEEVFSAYSALWWS 218
Qy 193 NGTFLAYAQFNDTEVPLIEYSFSDLSQYPTKTRVPYPKAGAVNPTKFFVWNTDLS 252
Db 219 NGTFLAYAQFNDTEVPLIEYSFSDLSQYPTKTRVPYPKAGAVNPTKFFVWNTDLS 278
Qy 253 VTNATSIQITAPASMLIGDHYLCVDTWATQERISLOWLRRIQNYVMDICDYDESSGRWN 312
Db 279 VTNATSIQITAPASMLIGDHYLCVDTWATQERISLOWLRRIQNYVMDICDYDESSGRWN 338
Qy 313 CLVARQHIEMSTTGWGRFRPSEPHFTLDGNSFYKIIISNEEGYRHICYFQIDKKDCTFIT 372
Db 339 CLVARQHIEMSTTGWGRFRPSEPHFTLDGNSFYKIIISNEEGYRHICYFQIDKKDCTFIT 398
Qy 373 KGTWEVIGIEALTSDYLYIISNEYKMGPGGRNLKYIQLSDYTKVTCLSCELNPERCQYS 432
Db 399 KGTWEVIGIEALTSDYLYIISNEYKMGPGGRNLKYIQLSDYTKVTCLSCELNPERCQYS 458
Qy 433 VSPSKEAKYQLRCSGGLPLYTLHSSVNDKGLRVLEDNSALDKMLQNVQMPKSLDFII 492
Db 459 VSPSKEAKYQLRCSGGLPLYTLHSSVNDKGLRVLEDNSALDKMLQNVQMPKSLDFII 518
Qy 493 LNETKFWYQMLPPHFDKSKYPLLLDVYAGPCSQKADTVFRLNWTATYLASTENIIVASF 552
Db 519 LNETKFWYQMLPPHFDKSKYPLLLDVYAGPCSQKADTVFRLNWTATYLASTENIIVASF 578
Qy 553 DGRSGYQGDKIMHAINRRLGTFEVEDQIEAARQFSKMGFVDNKRKRIAIWGSYGGYVTS 612
Db 579 DGRSGYQGDKIMHAINRRLGTFEVEDQIEAARQFSKMGFVDNKRKRIAIWGSYGGYVTS 638
Qy 613 VLGSYGVPKCGIAVAPVSRWEYDVSVYTERYMGILPTPEDNLDHYRNSVMSRAENFKQV 672
Db 639 VLGSYGVPKCGIAVAPVSRWEYDVSVYTERYMGILPTPEDNLDHYRNSVMSRAENFKQV 698
Qy 673 EYLLIHGTADDNVHFQSAQISKALVDGVDPFQAMWTTDEDHGIASSTAHOHIYTHMSHF 732
Db 699 EYLLIHGTADDNVHFQSAQISKALVDGVDPFQAMWTTDEDHGIASSTAHOHIYTHMSHF 758
Qy 733 IKQCFSLP 740
Db 759 IKQCFSLP 766

RESULT 20

ADZ14038
ID ADZ14038 standard; protein; 766 AA.
XX AC ADZ14038;
XX AC ADZ14038;
DT 16-JUN-2005 (first entry)
XX DE Human dipeptidyl peptidase IV protein.
XX DE diabetes; antidiabetic; endocrine disease; gastrointestinal disease;
KW metabolic disorder; dipeptidyl peptidase IV; CD26; enzyme.
XX OS Homo sapiens.
XX PN US2005074805-A1.
XX PD 07-APR-2005.
XX PF 28-SEP-2004; 2004US-00952459.
XX

PR 03-OCT-2003; 2003US-0508699P.
XX (HOFF) HOFFMANN LA ROCHE INC.
PA Kochan JP, Martin ML, Rosinski JA;
PI WPI; 2005-283780/29.
XX N-PSDB; ADZ14037.
DR REFSEQ; NP_001926.
XX
PT Diagnosing pre-diabetes, diabetes or susceptibility to diabetes, by
PT obtaining biological sample, and detecting or measuring level of
PT polypeptide marker comprising polypeptide e.g. vascular endothelial
PT growth factor B, apolipoprotein D.
XX
PS Claim 1; SEQ ID NO 18; 66pp; English.
XX
CC The present invention relates to a method for diagnosing of pre-diabetes,
CC diabetes or susceptibility to diabetes. The method involves obtaining a
CC biological sample and detecting or measuring the level of a polypeptide
CC marker, such as vascular endothelial growth factor B or apolipoprotein D.
CC The invention is useful for treating diabetes and pre-diabetes. The
CC present sequence is the human dipeptidyl peptidase IV (DPP4, DPP4)
CC protein. Dipeptidyl peptidase IV is also known as CD26, ADCP2, TP103,
CC ADABP: adenosine deaminase complexing protein 2 and Tcell activation
CC antigen CD26.
XX
SQ Sequence 766 AA;

Query Match 98.0%; Score 3939; DB 9; Length 766;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 728; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 13 SRKTYTLTLDYLNKTYRLKLSLRWISDHEYLKQENNLVFNABYGNSSVFLNSTPDEF 72
Db 39 SRKTYTLTLDYLNKTYRLKLSLRWISDHEYLKQENNLVFNABYGNSSVFLNSTPDEF 98
Qy 73 GHSINDYSIPDQGFILLEYVVKQWRHSYTSYDIYDLNKRQLITEERIPNNTQWTVWS 132
Db 99 GHSINDYSIPDQGFILLEYVVKQWRHSYTSYDIYDLNKRQLITEERIPNNTQWTVWS 158
Qy 133 PVGHKLAYVWNNNDIYVKIEPNLPSYRIITWTGKEDIYNGITDWWYEEVFSAYSALWWS 192
Db 159 PVGHKLAYVWNNNDIYVKIEPNLPSYRIITWTGKEDIYNGITDWWYEEVFSAYSALWWS 218
Qy 193 NGTFLAYAQFNDTEVPLIEYSFSDLSQYPTKTRVPYPKAGAVNPTKFFVWNTDLS 252
Db 219 NGTFLAYAQFNDTEVPLIEYSFSDLSQYPTKTRVPYPKAGAVNPTKFFVWNTDLS 278
Qy 253 VTNATSIQITAPASMLIGDHYLCVDTWATQERISLOWLRRIQNYVMDICDYDESSGRWN 312
Db 279 VTNATSIQITAPASMLIGDHYLCVDTWATQERISLOWLRRIQNYVMDICDYDESSGRWN 338
Qy 313 CLVARQHIEMSTTGWGRFRPSEPHFTLDGNSFYKIIISNEEGYRHICYFQIDKKDCTFIT 372
Db 339 CLVARQHIEMSTTGWGRFRPSEPHFTLDGNSFYKIIISNEEGYRHICYFQIDKKDCTFIT 398
Qy 373 KGTWEVIGIEALTSDYLYIISNEYKMGPGGRNLKYIQLSDYTKVTCLSCELNPERCQYS 432
Db 399 KGTWEVIGIEALTSDYLYIISNEYKMGPGGRNLKYIQLSDYTKVTCLSCELNPERCQYS 458
Qy 433 VSPSKEAKYQLRCSGGLPLYTLHSSVNDKGLRVLEDNSALDKMLQNVQMPKSLDFII 492
Db 459 VSPSKEAKYQLRCSGGLPLYTLHSSVNDKGLRVLEDNSALDKMLQNVQMPKSLDFII 518
Qy 493 LNETKFWYQMLPPHFDKSKYPLLLDVYAGPCSQKADTVFRLNWTATYLASTENIIVASF 552
Db 519 LNETKFWYQMLPPHFDKSKYPLLLDVYAGPCSQKADTVFRLNWTATYLASTENIIVASF 578
Qy 553 DGRSGYQGDKIMHAINRRLGTFEVEDQIEAARQFSKMGFVDNKRKRIAIWGSYGGYVTS 612
Db 579 DGRSGYQGDKIMHAINRRLGTFEVEDQIEAARQFSKMGFVDNKRKRIAIWGSYGGYVTS 638

KW Antinflammatory; Immune disorder; Dermatological; Immunosuppressive;
KW Antirheumatic; Antiarthritic; Osteopathic; Hemostatic; Antianemic;
KW Antithyroid; Antidiabetic; Nephrotropic; CNS-Gen.; Hepatotropic;
KW Virucide; Gastrointestinal-Gen.; Antipsoriatic; Antiasthmatic;
XX Antiallergic; ds; Gene; diagnosis.
OS Homo sapiens.
XX WO2005016962-A2.
XX PD 24-FEB-2005.
XX PF 11-AUG-2004; 2004WO-US026249.
XX PR 11-AUG-2003; 2003US-0493546P.
XX PA (GETH) GENENTECH INC.
XX PI Abbas A, Clark H, Ouyang W, Williams MP, Wood WI, Wu TD;
XX DR WPI; 2005-182330/19.
XX PT New nucleic acid encoding PRO polypeptide, useful for diagnosing and
PT treating an immune related disorder, e.g. systemic lupus erythematosus,
PT rheumatoid arthritis, osteoarthritis, thyroiditis, or diabetes mellitus.
XX PS Claim 8; SEQ ID NO 967; 158pp; English.
XX CC The invention relates to an isolated nucleic acid encoding a PRO
CC polypeptide. The polypeptide, agonist or an antagonist, antibody,
CC composition, and method are useful for diagnosing and treating an immune
CC related disorder, e.g. systemic lupus erythematosus, rheumatoid
CC arthritis. The present sequence represents a DNA encoding a PRO
CC polypeptide.
XX SQ Sequence 766 AA;
Query Match 98.0%; Score 3939; DB 9; Length 766;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 728; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 13 SRKTYTLTDYLNKTYRLKLSLRWISDHEYLKQENNLVFNARYGNSVFLNSTPDEF 72
DB 39 SRKTYTLTDYLNKTYRLKLSLRWISDHEYLKQENNLVFNARYGNSVFLNSTPDEF 98
QY 73 GHSINDYSTPDGQFILLLEYNVVKQWRHSYTSYDIYDLNKRQLITEERIPNNTQWTVWS 132
DB 99 GHSINDYSTPDGQFILLLEYNVVKQWRHSYTSYDIYDLNKRQLITEERIPNNTQWTVWS 158
QY 133 PVGKHLAYVWNNDIYVKIEPNLPSYRITWTGKEDIYNGITDMWYEEVFSAYSALWNSP 192
DB 159 PVGKHLAYVWNNDIYVKIEPNLPSYRITWTGKEDIYNGITDMWYEEVFSAYSALWNSP 218
QY 193 NGTFLAYAQFNDTEVPLIEYSYDESLOYPKTVRPYPKAGAVNPTVKFFVNTDSLSS 252
DB 219 NGTFLAYAQFNDTEVPLIEYSYDESLOYPKTVRPYPKAGAVNPTVKFFVNTDSLSS 278
QY 253 VTNATSIQITAPASMLIGHYLCVDTWATQERISLQWLRRIQNSYVMDICDYDESSGRWN 312
DB 279 VTNATSIQITAPASMLIGHYLCVDTWATQERISLQWLRRIQNSYVMDICDYDESSGRWN 338
QY 313 CLVARQHIEMSTTGWGRFRPSEPHTLDGNSFYKIIISNEGYRHICYFQIDKDCCTFIT 372
DB 339 CLVARQHIEMSTTGWGRFRPSEPHTLDGNSFYKIIISNEGYRHICYFQIDKDCCTFIT 398
QY 373 KGTWEVIGIEALTSYLYIISNEYKMGPGGRNLYKIQLSDYTKVTCLSCELNPERCQYYS 432
DB 399 KGTWEVIGIEALTSYLYIISNEYKMGPGGRNLYKIQLSDYTKVTCLSCELNPERCQYYS 458
QY 433 VSF5KEAKYQRCGPGGLPLYTLHSSVNDKGLRVLEONSALDKMLQNVQMP5SKLDFTI 492
DB 459 VSF5KEAKYQRCGPGGLPLYTLHSSVNDKGLRVLEONSALDKMLQNVQMP5SKLDFTI 518

QY 493 LNETKFYQMLPDPHFDKSKYPLLLDYYAGPCSQKADTVFRLNWTATLASTENIIVASP 552
DB 519 LNETKFYQMLPDPHFDKSKYPLLLDYYAGPCSQKADTVFRLNWTATLASTENIIVASP 578
QY 553 DGRSGYQGDKIEMAINRRLCTFEVEDQIEAAROF5KMGFVDNKRKIALTGW5YGGVVTSM 612
DB 579 DGRSGYQGDKIEMAINRRLCTFEVEDQIEAAROF5KMGFVDNKRKIALTGW5YGGVVTSM 638
QY 613 VLGSGGVFKGCIAGVAPVSRWEYDVSVYTERYMGILPTPEDNLDHYRNSTVMSRAENFKQV 672
DB 639 VLGSGGVFKGCIAGVAPVSRWEYDVSVYTERYMGILPTPEDNLDHYRNSTVMSRAENFKQV 698
QY 673 EYLLIHGTADDNVHFQOQAQISKALVDVGVDFQAMWYTDDEHGIASSTAHQHIYTHMSHF 732
DB 699 EYLLIHGTADDNVHFQOQAQISKALVDVGVDFQAMWYTDDEHGIASSTAHQHIYTHMSHF 758
QY 733 IKQCFSLP 740
DB 759 IKQCFSLP 766
RESULT 19
ADY16580
ID ADY16580 standard; protein; 766 AA.
XX AC ADY16580;
XX DT 05-MAY-2005 (first entry)
XX DE PRO polypeptide SEQ ID NO 2386.
XX KW Antinflammatory; Immune disorder; Dermatological; Immunosuppressive;
KW Antirheumatic; Antiarthritic; Osteopathic; Hemostatic; Antianemic;
KW Antithyroid; Antidiabetic; Nephrotropic; CNS-Gen.; Hepatotropic;
KW Virucide; Gastrointestinal-Gen.; Antipsoriatic; Antiasthmatic;
KW Antiallergic; ds; Gene; diagnosis.
XX OS Homo sapiens.
XX PN WO2005016962-A2.
XX PD 24-FEB-2005.
XX PF 11-AUG-2004; 2004WO-US026249.
XX PR 11-AUG-2003; 2003US-0493546P.
XX PA (GETH) GENENTECH INC.
XX PI Abbas A, Clark H, Ouyang W, Williams MP, Wood WI, Wu TD;
XX DR WPI; 2005-182330/19.
XX PT New nucleic acid encoding PRO polypeptide, useful for diagnosing and
PT treating an immune related disorder, e.g. systemic lupus erythematosus,
PT rheumatoid arthritis, osteoarthritis, thyroiditis, or diabetes mellitus.
XX PS Claim 8; SEQ ID NO 2386; 158pp; English.
XX CC The invention relates to an isolated nucleic acid encoding a PRO
CC polypeptide. The polypeptide, agonist or an antagonist, antibody,
CC composition, and method are useful for diagnosing and treating an immune
CC related disorder, e.g. systemic lupus erythematosus, rheumatoid
CC arthritis. The present sequence represents a DNA encoding a PRO
CC polypeptide.
XX SQ Sequence 766 AA;
Query Match 98.0%; Score 3939; DB 9; Length 766;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 728; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 13 SRKTYTLTDYLNKTYRLKLSLRWISDHEYLKQENNLVFNARYGNSVFLNSTPDEF 72

Dd 639 VLGGSGVFKCGIAVAPVSRWEYDVSVYTERYMGTPEDNLDHNRNSTVMSRAENPKQV 698
Qy 673 EYLLHGTADDNVHFQQAQISKALVDVGVDFQAMWYTDHGHGASSTAHQHIVTHMSHF 732
Dd 699 EYLLHGTADDNVHFQQAQISKALVDVGVDFQAMWYTDHGHGASSTAHQHIVTHMSHF 758
Qy 733 IKQCFSLP 740
Dd 759 IKQCFSLP 766

RESULT 17
ADV25525
ID ADV25525 standard; protein; 766 AA.
XX
AC ADV25525;
XX
DT 24-FEB-2005 (first entry)
XX
DE Human dipeptidyl-peptidase IV.
XX
KW Dipeptidyl-peptidase IV; DPP4; cardiovascular disease;
KW dermatological disease; cancer; neoplasm; hematological disease;
KW respiratory disease; gastrointestinal disease; liver disease;
KW metabolic disorder; Cardiovascular-Gen.; Endocrine-Gen.;
KW Antiinflammatory; Gastrointestinal-Gen.; Gynecological; Hepatotropic;
KW Neuroprotective; Cystostatic; Antiparkinsonian; Nootropic; Cardiant;
KW Antiarrhythmic; Antiartherosclerotic; Antianemic; Antidiabetic;
KW Dermatologic; Immunosuppressive; Muscular-Gen.; Antirheumatic;
KW Antiarthritic; Antipeoriatic; Antiinfertility; Gene Therapy.
XX
OS Homo sapiens.
XX
XX WO2004104216-A2.
XX
XX 02-DEC-2004.
XX
XX 12-MAY-2004; 2004WO-EP005071.
XX
PR 21-MAY-2003; 2003EP-00011481.
XX
XX (FARB) BAYER HEALTHCARE AG.
XX
XX Golz S, Brueggemeier U, Summer H;
PI
XX WPT; 2004-834301/82.
DR
DR N-PSDB; ADV25524.
XX
XX
PT Use of dipeptidylpeptidase IV (DPP4) polypeptides or polynucleotides for
PT screening therapeutic agents or for diagnosing or treating diseases
PT associated with DPP4, e.g. cardiovascular, metabolic, inflammatory, or
PT neurological disorders.
XX
PS Disclosure; SEQ ID NO 2; 128pp; English.

XX
XX The present sequence is the protein sequence of human dipeptidyl-
CC peptidase IV (DPP4). The invention relates to novel disease associations
CC of DPP4 polypeptides and polynucleotides and to novel methods of
CC screening for therapeutic agents for the treatment of cardiovascular
CC disorders, dermatological disorders, cancer, hematological disorders,
CC respiratory diseases, gastrointestinal and liver diseases, urological
CC disorders and metabolic diseases. Pharmaceutical compositions are
CC provided for treatment of these diseases and disorders and comprise a
CC DPP4 polypeptide, a DPP4 polynucleotide, or regulators of DPP4 or
CC modulators of DPP4 activity. The therapeutic agent is preferably a small
CC molecule, an RNA molecule, an antisense oligonucleotide, a polypeptide,
CC an antibody or a ribozyme. The invention also provides methods of
CC diagnosing diseases and disorders associated with DPP4 by measuring the
CC amount of a DPP4 polynucleotide in a sample and comparing it with the
CC amount in a sample from a healthy and/or diseased mammal. The diseases
CC and disorders include Parkinson's disease, dementia, Alzheimer's disease,
CC myocardial infarction, arrhythmias, atherosclerosis, anemia, eosinophilic
CC disorders, leukemia, pancreatitis, Crohn's disease, inflammatory bowel

CC disease, diabetes, Cushing's syndrome, systemic lupus erythematosus,
CC myasthenia gravis, rheumatoid arthritis, psoriasis, scleroderma, or
CC infertility.
XX
SQ Sequence 766 AA;
Query Match 98.0%; Score 3939; DB 8; Length 766;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 728; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 13 SRKTYTLTDYLNKTYRLKLSLRWISDHEYLKQENNILVFNAEYSGNSVPLENSTPDEF 72
Dd 39 SRKTYTLTDYLNKTYRLKLSLRWISDHEYLKQENNILVFNAEYSGNSVPLENSTPDEF 98
Qy 73 GHSINDYSISPDGQFILLEYNVYKQWRHSYTSYDIYDLNKRQLITBERIPNNTQWVTWS 132
Dd 99 GHSINDYSISPDGQFILLEYNVYKQWRHSYTSYDIYDLNKRQLITBERIPNNTQWVTWS 158
Qy 133 PVGHKLAVVWNNDIYVKIEPNLPSYRITWTCKEDIIYNGITDWWYEEVFSAYSAWMSF 192
Dd 159 PVGHKLAVVWNNDIYVKIEPNLPSYRITWTCKEDIIYNGITDWWYEEVFSAYSAWMSF 218
Qy 193 NGTFLAYAQFNDTEVPLIEYSFYSDESLSQYPTVRVPYPKAGAVNPTVKFFVWNTDSLSS 252
Dd 219 NGTFLAYAQFNDTEVPLIEYSFYSDESLSQYPTVRVPYPKAGAVNPTVKFFVWNTDSLSS 278
Qy 253 VTNATSIQITAPASMLIGDHYLDVWATQERISLQWLRRIQNVSVMDICDYDSSSGRW 312
Dd 279 VTNATSIQITAPASMLIGDHYLDVWATQERISLQWLRRIQNVSVMDICDYDSSSGRW 338
Qy 313 CLVARQHIEMSTTGWGRPRPSPHFTLDGNSFYKIIISNEEGYRHCYFQIDKKDCTPIT 372
Dd 339 CLVARQHIEMSTTGWGRPRPSPHFTLDGNSFYKIIISNEEGYRHCYFQIDKKDCTPIT 398
Qy 373 KGTWEVIGIEALTSYLYISNEYKMGPGGRNLYKIQLSYTKVTCLSCELNPERCOYYS 432
Dd 399 KGTWEVIGIEALTSYLYISNEYKMGPGGRNLYKIQLSYTKVTCLSCELNPERCOYYS 458
Qy 433 VSFSKEAKYQLRCSGPLPLYTLHSSVNDKGLRVLEDNSALDKMLQNVQMPSKLDFII 492
Dd 459 VSFSKEAKYQLRCSGPLPLYTLHSSVNDKGLRVLEDNSALDKMLQNVQMPSKLDFII 518
Qy 493 LNETKFWYQMLPPHFDKSKYPLLLDVYAGPCSKADTVFRLNWTATLASTENIIVASF 552
Dd 519 LNETKFWYQMLPPHFDKSKYPLLLDVYAGPCSKADTVFRLNWTATLASTENIIVASF 578
Qy 553 DGRSGYQGDKIMHAINRRRLGTFEVEDQIEAARQFSKMGFVDNKRKRIAIWGSYGGYVTS 612
Dd 579 DGRSGYQGDKIMHAINRRRLGTFEVEDQIEAARQFSKMGFVDNKRKRIAIWGSYGGYVTS 638
Qy 613 VLGGSGVFKCGIAVAPVSRWEYDVSVYTERYMGTPEDNLDHNRNSTVMSRAENPKQV 672
Dd 639 VLGGSGVFKCGIAVAPVSRWEYDVSVYTERYMGTPEDNLDHNRNSTVMSRAENPKQV 698
Qy 673 EYLLHGTADDNVHFQQAQISKALVDVGVDFQAMWYTDHGHGASSTAHQHIVTHMSHF 732
Dd 699 EYLLHGTADDNVHFQQAQISKALVDVGVDFQAMWYTDHGHGASSTAHQHIVTHMSHF 758
Qy 733 IKQCFSLP 740
Dd 759 IKQCFSLP 766

RESULT 18
ADV15161
ID ADV15161 standard; protein; 766 AA.
XX
XX ADV15161;
XX
DT 05-MAY-2005 (first entry)
XX
DE PRO polypeptide SEQ ID NO 967.
XX

Db 159 PVGHKLAVVWNNDIYVKIEPNLPSYRITWTGKEDIYNGITDWDVYEEVEFSAYSALWWSNP 218
QY 193 NGTFLAYAQFNDTEVPLIEYSFYDESLOYPKTVRPYPKAGAVNPTVKFFVNTDSLSS 252
Db 219 NGTFLAYAQFNDTEVPLIEYSFYDESLOYPKTVRPYPKAGAVNPTVKFFVNTDSLSS 278
QY 253 VTNATSIQITAPASMLIGDHVLCVDTWATQERISLQWLRRIONYSVMDICDYDESSGRWN 312
Db 279 VTNATSIQITAPASMLIGDHVLCVDTWATQERISLQWLRRIONYSVMDICDYDESSGRWN 338
QY 313 CLVAROHIEMSTTGWGFRPSEPHFTLDGNSFYKIIISNEGYRHCYFQIDKDCCTFIT 372
Db 339 CLVAROHIEMSTTGWGFRPSEPHFTLDGNSFYKIIISNEGYRHCYFQIDKDCCTFIT 398
QY 373 KGTWEVIGIEALTSYLYIISNEYKMGPGGRNLYKIQLSDYTKVTCLSCELNPERCOYYS 432
Db 399 KGTWEVIGIEALTSYLYIISNEYKMGPGGRNLYKIQLSDYTKVTCLSCELNPERCOYYS 458
QY 433 VSFSKEAKYQLRCSGPGPLPLYTLHSSVNDKGLRVLEDNSALDKMLQNVQMPSSKCLDFII 492
Db 459 VSFSKEAKYQLRCSGPGPLPLYTLHSSVNDKGLRVLEDNSALDKMLQNVQMPSSKCLDFII 518
QY 493 LNETKFWYQMLPPHFDKSKYPLLLDVGAGCSQKADTVPRLNWATYLASTENIIVASF 552
Db 519 LNETKFWYQMLPPHFDKSKYPLLLDVGAGCSQKADTVPRLNWATYLASTENIIVASF 578
QY 553 DGRSGYQGDQKIMHAINRRLGTFEVEDQIEAARQFSKMGFVDNKRKIAIWGWSYGGYVTSM 612
Db 579 DGRSGYQGDQKIMHAINRRLGTFEVEDQIEAARQFSKMGFVDNKRKIAIWGWSYGGYVTSM 638
QY 613 VLGGSGGVFKCGIAVAPVSRWEYDVSVYTERYMGLPTEPDNLDHVRNSTVMSRAENFKOV 672
Db 639 VLGGSGGVFKCGIAVAPVSRWEYDVSVYTERYMGLPTEPDNLDHVRNSTVMSRAENFKOV 698
QY 673 EYLLIHGTADNVHFOQSAQISKALVDVGVDFQAMWYTDDEHGIIASSTAHOIYTHMSHF 732
Db 699 EYLLIHGTADNVHFOQSAQISKALVDVGVDFQAMWYTDDEHGIIASSTAHOIYTHMSHF 758
QY 733 IKQCFSLP 740
Db 759 IKQCFSLP 766

RESULT 16

ID ADU06688
XX ADU06688 standard; protein; 765 AA.
AC ADU06688;
DT 27-JAN-2005 (first entry)
XX
DE Novel bronchial cancer-associated human protein SeqID914.
XX
KW bronchial cancer; cytostatic; tumour-associated protein;
KW cancer detection; metastasis; tumour; human.
XX Homo sapiens.
XX DE10316701-A1.
PN
XX
PD 04-NOV-2004.
XX
PF 09-APR-2003; 2003DE-01016701.
XX
PR 09-APR-2003; 2003DE-01016701.
XX
PA (HINZ/) HINZMANN B.
PA (HERM/) HERMANN K.
PA (CAST/) HEIDEN CASTANOS-VELEZ B.
XX
PI Mennerich D, Bruemendorf T, Heiden E, Hermann K, Kinnemann H;
PI Li X, Roepcke S, Staub E, Hinzmann B, Rosenthal A, Pillarsky C;
XX

DR WPI; 2004-786403/78.
XX N-ESDB; ADU06201.
PT New nucleic acid, and derived proteins, useful for diagnosis of bronchial
XX cancer and in screening for therapeutic and diagnostic agents.
PS Claim 2; SEQ ID NO 914; 1381pp; German.
XX
CC This invention relates to a novel isolated nucleic acid associated with
CC bronchial cancer comprising 489 defined sequences given in the
CC specification. The invention may be useful for the production of
CC compounds with a cytostatic activity through the inhibition of expression
CC or activity of tumour-associated proteins. The novel DNA sequences and
CC the proteins/peptides encoded by them are used for detecting bronchial
CC cancer or determining the risk of developing it and to screen for
CC specific binding partners of the DNA or protein sequences, where the
CC binding partners are potentially useful as agents for treating or
CC diagnosing bronchial cancer. The DNA or protein sequences can also be
CC used for prognosis, detection of metastases and for secondary treatment
CC (of tumours that have been stabilised or are no longer detectable).
CC Detecting abnormal expression of the DNA sequences provides early
CC diagnosis of bronchial cancers. The present sequence is that of a protein
CC encoded by a novel bronchial cancer-associated human gene sequence of the
XX invention.
SQ Sequence 766 AA;
Query Match 98.0%; Score 3939; DB 8; Length 766;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 728; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 13 SRKTYTLFDYLNQTVRLKLYSLRWISDHEYLKQENNLVFNAEYGNSSVFLNSTFDF 72
Db 39 SRKTYTLFDYLNQTVRLKLYSLRWISDHEYLKQENNLVFNAEYGNSSVFLNSTFDF 98
QY 73 GHSINDYSISPDGQFILLEYNVYKQWRHSYASDYIDLNKQLITEIRIPNNTQVWTS 132
Db 99 GHSINDYSISPDGQFILLEYNVYKQWRHSYASDYIDLNKQLITEIRIPNNTQVWTS 158
QY 133 PVGHKLAVVWNNDIYVKIEPNLPSYRITWTGKEDIYNGITDWDVYEEVEFSAYSALWWSNP 192
Db 159 PVGHKLAVVWNNDIYVKIEPNLPSYRITWTGKEDIYNGITDWDVYEEVEFSAYSALWWSNP 218
QY 193 NGTFLAYAQFNDTEVPLIEYSFYDESLOYPKTVRPYPKAGAVNPTVKFFVNTDSLSS 252
Db 219 NGTFLAYAQFNDTEVPLIEYSFYDESLOYPKTVRPYPKAGAVNPTVKFFVNTDSLSS 278
QY 253 VTNATSIQITAPASMLIGDHVLCVDTWATQERISLQWLRRIONYSVMDICDYDESSGRWN 312
Db 279 VTNATSIQITAPASMLIGDHVLCVDTWATQERISLQWLRRIONYSVMDICDYDESSGRWN 338
QY 313 CLVAROHIEMSTTGWGFRPSEPHFTLDGNSFYKIIISNEGYRHCYFQIDKDCCTFIT 372
Db 339 CLVAROHIEMSTTGWGFRPSEPHFTLDGNSFYKIIISNEGYRHCYFQIDKDCCTFIT 398
QY 373 KGTWEVIGIEALTSYLYIISNEYKMGPGGRNLYKIQLSDYTKVTCLSCELNPERCOYYS 432
Db 399 KGTWEVIGIEALTSYLYIISNEYKMGPGGRNLYKIQLSDYTKVTCLSCELNPERCOYYS 458
QY 433 VSFSKEAKYQLRCSGPGPLPLYTLHSSVNDKGLRVLEDNSALDKMLQNVQMPSSKCLDFII 492
Db 459 VSFSKEAKYQLRCSGPGPLPLYTLHSSVNDKGLRVLEDNSALDKMLQNVQMPSSKCLDFII 518
QY 493 LNETKFWYQMLPPHFDKSKYPLLLDVGAGCSQKADTVPRLNWATYLASTENIIVASF 552
Db 519 LNETKFWYQMLPPHFDKSKYPLLLDVGAGCSQKADTVPRLNWATYLASTENIIVASF 578
QY 553 DGRSGYQGDQKIMHAINRRLGTFEVEDQIEAARQFSKMGFVDNKRKIAIWGWSYGGYVTSM 612
Db 579 DGRSGYQGDQKIMHAINRRLGTFEVEDQIEAARQFSKMGFVDNKRKIAIWGWSYGGYVTSM 638
QY 613 VLGGSGGVFKCGIAVAPVSRWEYDVSVYTERYMGLPTEPDNLDHVRNSTVMSRAENFKOV 672

SQ	Sequence 766 AA;	
Query Match	98.0%; Score 3939; DB 8; Length 766;	
Best Local Similarity	100.0%; Pred. No. 0;	
Matches 728; Conservative	0; Mismatches 0; Indels 0; Gaps 0;	
Qy	13 SRKTYTLTDYLNKNTYRLKLSLRWISDHEYLKQENNVFNAYGNSSVFLNSTPDEF	72
Db	39 SRKTYTLTDYLNKNTYRLKLSLRWISDHEYLKQENNVFNAYGNSSVFLNSTPDEF	98
Qy	73 GHSINDYSISPDGQFILLLEYNVYKQWRHSYTSYDIYDLNKRQLITERIPNNTQWTVWS	132
Db	99 GHSINDYSISPDGQFILLLEYNVYKQWRHSYTSYDIYDLNKRQLITERIPNNTQWTVWS	158
Qy	133 PVGHKLAVWVNDIYVKEPNLPSYRITWTGKEDIYNGITDWWYEEVFSAYSAWSP	192
Db	159 PVGHKLAVWVNDIYVKEPNLPSYRITWTGKEDIYNGITDWWYEEVFSAYSAWSP	218
Qy	193 NGTFLAYAQFNDTEVPLIEYSFYSDLSQYPTKVRVPYKAGAVNPTVKFFVNVNTDLSL	252
Db	219 NGTFLAYAQFNDTEVPLIEYSFYSDLSQYPTKVRVPYKAGAVNPTVKFFVNVNTDLSL	278
Qy	253 VTNATSIQTAPASMLIGDHYLCDVTWATQERISLOWLRRIQNVMDICDYDESSGRWN	312
Db	279 VTNATSIQTAPASMLIGDHYLCDVTWATQERISLOWLRRIQNVMDICDYDESSGRWN	338
Qy	313 CLVARQHEMSTTGWGRFRPSEPHFTLDGNSFYKIIISNEEYRHCYFQIDKDCCTFIT	372
Db	339 CLVARQHEMSTTGWGRFRPSEPHFTLDGNSFYKIIISNEEYRHCYFQIDKDCCTFIT	398
Qy	373 KGTWEVIGIEALTSYLYISNEYKMGPGGRNLYKIQLSDYTKVTKLSCELNPERCOYYS	432
Db	399 KGTWEVIGIEALTSYLYISNEYKMGPGGRNLYKIQLSDYTKVTKLSCELNPERCOYYS	458
Qy	433 VSFSKEAKYQVLRCSGGLPLTYLHSSVNDKGLRVLEDNSALDKMLQNVQMPKCLDFII	492
Db	459 VSFSKEAKYQVLRCSGGLPLTYLHSSVNDKGLRVLEDNSALDKMLQNVQMPKCLDFII	518
Qy	493 LNETKFWQMLPDPHDKSKYPLLDVYAGPCSKADTVPRLNWATYLASTENIIVASF	552
Db	519 LNETKFWQMLPDPHDKSKYPLLDVYAGPCSKADTVPRLNWATYLASTENIIVASF	578
Qy	553 DGRSGYQGDKIMHAINRLGTPEVEDQIEAARQFSKMGFVNDKRIAIWGSYGGYVTSM	612
Db	579 DGRSGYQGDKIMHAINRLGTPEVEDQIEAARQFSKMGFVNDKRIAIWGSYGGYVTSM	638
Qy	613 VLSSGSGVFCGCIAPVSRWEYDYSYTRYVGLPTPEDNLDHRYNRSTVMSRAENFKQV	672
Db	639 VLSSGSGVFCGCIAPVSRWEYDYSYTRYVGLPTPEDNLDHRYNRSTVMSRAENFKQV	698
Qy	673 EYLLIHGTADDNVHFQSOAISKALVDVGDVFOAMWYTDHGHGTAHGHLYTHMSHP	732
Db	699 EYLLIHGTADDNVHFQSOAISKALVDVGDVFOAMWYTDHGHGTAHGHLYTHMSHP	758
Qy	733 IKQCFSLP 740	
Db	759 IKQCFSLP 766	

RESULT 15
ADP54458
ID ADP54458 standard; protein; 766 AA.
XX
AC ADP54458;
XX
DT 18-NOV-2004 (first entry)
XX
DE Human PRO protein sequence SEQ ID NO:434.
XX
KW human; PRO; immune related disease; inflammatory immune response;
KW immune response stimulation; antiallergic; antianaemic; antiarthritic;
KW antiaesthetic; antidiabetic; antiinflammatory; antipsoriatic;
KW antirheumatic; antithyroid; CNS; dermatological; gastrointestinal;

KW	haemostatic; hepatotropic; immunostimulant; immunosuppressive; muscular;
KW	nephrotropic; neuroprotective; osteopathic; respiratory; vasotropic;
XX	virucide; gene therapy.
OS	Homo sapiens.
XX	WO2004039956-A2.
XX	13-MAY-2004.
PD	
XX	28-OCT-2003; 2003WO-US034381.
PF	
XX	29-OCT-2002; 2002US-0422472P.
PR	
XX	(GETH) GENENTECH INC.
PA	Aggarwal S, Clark H, Gurney AL, Schoenfeld J, Williams PM;
XX	Wood WI, Wu TD;
PI	
XX	WPI; 2004-376182/35.
DR	N-PSDB; ADP54457.
XX	
XX	New PRO polynucleotides and polypeptides, useful in useful in diagnosing
PT	and treating an immune related disease, e.g. systemic lupus
PT	erythematosus, rheumatoid arthritis, diabetes mellitus or asthma and in
PT	stimulating an immune response.
XX	
XX	Claim 1; SEQ ID NO 434; 3009pp; English.
PS	
XX	The present invention describes an isolated PRO nucleic acid (1). Also
CC	described: (1) a vector comprising (1); (2) a host cell comprising the
CC	vector of (1); (3) a process for producing a PRO polypeptides; (4) an
CC	isolated PRO polypeptide; (5) a chimeric molecule comprising the
CC	polypeptide of (4) fused to a heterologous amino acid sequence; (6) an
CC	antibody which specifically binds to a polypeptide of (4); (7) a
CC	composition of matter comprising a polypeptide of (4), an agonist or
CC	antagonist of the polypeptide or an antibody that binds to the
CC	polypeptide in combination with a carrier; (8) an article of manufacture
CC	comprising a container, a label on the container and a composition of
CC	matter of (7); (9) a method of treating an immune related disease in a
CC	mammal; (10) a method for determining the presence of a PRO polypeptide
CC	in a sample suspected of having the polypeptide; (11) a method of
CC	diagnosing an immune related disease or an inflammatory immune response
CC	in mammal; (12) a method of identifying a compound that inhibits or
CC	mimics the activity of or expression of a gene encoding a PRO polypeptide
CC	; and (13) a method of stimulating the immune response in a mammal. The
CC	PRO sequences have antiallergic, antianaemic, antiarthritic,
CC	antiaesthetic, antidiabetic, antiinflammatory, antipsoriatic,
CC	antirheumatic, antithyroid, CNS, dermatological, gastrointestinal,
CC	haemostatic, hepatotropic, immunostimulant, immunosuppressive, muscular,
CC	nephrotropic, neuroprotective, osteopathic, respiratory, vasotropic and
CC	virucide activities, and can be used in gene therapy. The nucleic acid
CC	(1) and the encoded polypeptides, compositions, kits and methods are
CC	useful in diagnosing and treating an immune related disease and in
CC	stimulating an immune response. The present sequence represents a human
CC	PRO protein from the present invention.
XX	
SQ	Sequence 766 AA;

Query Match 98.0%; Score 3939; DB 8; Length 766;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 728; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 13 SRKTYTLTDYLNKNTYRLKLSLRWISDHEYLKQENNVFNAYGNSSVFLNSTPDEF 72
Db 39 SRKTYTLTDYLNKNTYRLKLSLRWISDHEYLKQENNVFNAYGNSSVFLNSTPDEF 98
Qy 73 GHSINDYSISPDGQFILLLEYNVYKQWRHSYTSYDIYDLNKRQLITERIPNNTQWTVWS 132
Db 99 GHSINDYSISPDGQFILLLEYNVYKQWRHSYTSYDIYDLNKRQLITERIPNNTQWTVWS 158
Qy 133 PVGHKLAVWVNDIYVKEPNLPSYRITWTGKEDIYNGITDWWYEEVFSAYSAWSP 192

PT Use of a CD26 composition, and a chemotherapeutic and/or a
PT radiotherapeutic agent for e.g. inhibiting the cell growth, inducing cell
PT cycle arrest, killing a cancer cell, treating cancer, or inducing tumor
PT regression or tumor necrosis.

PS Claim 23; Page 175-176; 182pp; English.

XX The specification describes a CD26 composition which, in conjunction with
CC chemotherapeutic or radiotherapeutic agents, is used for the treatment
CC and prevention of cancers. Expression of CD26 enhances the sensitivity of
CC the cancer cell to the chemotherapeutic or radiotherapeutic agent. CD26
CC is a dipeptidyl peptidase IV (DPP4V). The chemotherapeutic agent is a
CC topoisomerase II inhibitor. The CD26 composition of the invention is
CC useful for inhibiting the growth of a cell, inducing cell cycle arrest in
CC a cell, killing a cancer cell, potentiating the effect of a
CC chemotherapeutic agent and/or a radiotherapeutic agent on a tumor cell,
CC inducing or enhancing apoptosis of a cancer cell, treating cancer, or
CC inducing tumor regression or tumor necrosis. The CD26 composition is
CC further useful for increasing topoisomerase II expression in a cell, for
CC activating an antigen-presenting cell, or for potentiating immune
CC responses of an animal. The present sequence represents a CD26 protein,
CC and is encoded by vectors which are used to produce compositions of the
CC invention.

XX Sequence 766 AA;

Query Match 98.0%; Score 3939; DB 8; Length 766;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 728; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 13 SRKTYTLTDYLNKTYRLKLYSLRWISDHELYKQENNLVFNAYGNSVFLENSTFDEF 72
DB 39 SRKTYTLTDYLNKTYRLKLYSLRWISDHELYKQENNLVFNAYGNSVFLENSTFDEF 98
QY 73 GHSINDYSISDPGQFILLIYNNVYKWRHSYASYDIYDLNKRQLITEERIPNNTQWTVMS 132
DB 99 GHSINDYSISDPGQFILLIYNNVYKWRHSYASYDIYDLNKRQLITEERIPNNTQWTVMS 158
QY 133 PVGHKLAVYNNNDIVKLEPNLPSVRIYTWGKEDIYNGIDTWVEEVEFSAISALWNSP 192
DB 159 PVGHKLAVYNNNDIVKLEPNLPSVRIYTWGKEDIYNGIDTWVEEVEFSAISALWNSP 218
QY 193 NGTFLAYAQFNDTEVPLEIYSFYSDESLOQPKTVRPVPKAGAVNPTVKFFVNTDSLSS 252
DB 219 NGTFLAYAQFNDTEVPLEIYSFYSDESLOQPKTVRPVPKAGAVNPTVKFFVNTDSLSS 278
QY 253 VTNATSIQITAPASMLIGDHYLCDVTWATQERISLQWLRRIQNYSMVDICDYDESSGRWN 312
DB 279 VTNATSIQITAPASMLIGDHYLCDVTWATQERISLQWLRRIQNYSMVDICDYDESSGRWN 338
QY 313 CLVARQHIEMSTTGWGRFRPSEPHFTLDGNSFYKIIISNEEGYRHICYFQIDKDCFTFIT 372
DB 339 CLVARQHIEMSTTGWGRFRPSEPHFTLDGNSFYKIIISNEEGYRHICYFQIDKDCFTFIT 398
QY 373 KGTWEVIGIEALTSYLYIISNEYKMGPGGRNLKYQLSDYTKVTCLSCELNPERCQYYS 432
DB 399 KGTWEVIGIEALTSYLYIISNEYKMGPGGRNLKYQLSDYTKVTCLSCELNPERCQYYS 458
QY 433 VSFSEAKYQYRCSPGLPLTLHSSVNDKGLRVLEDNSALDKMLQNVQPSKKLDFTI 492
DB 459 VSFSEAKYQYRCSPGLPLTLHSSVNDKGLRVLEDNSALDKMLQNVQPSKKLDFTI 518
QY 493 LNETFWYQMLPPHFDKSKYPLLLDVYAGPCSKADTVFRLNWTYLASTENIIVASF 552
DB 519 LNETFWYQMLPPHFDKSKYPLLLDVYAGPCSKADTVFRLNWTYLASTENIIVASF 578
QY 553 DGRSGYQGDKIMHAINRLGTFEVEDQIEAARQFSKMGFVDNKRIAIWNWSYGYVTSM 612
DB 579 DGRSGYQGDKIMHAINRLGTFEVEDQIEAARQFSKMGFVDNKRIAIWNWSYGYVTSM 638
QY 613 VLGGSGGVFKCIIAVAPSVRWYEDSVYTERVNGLPTPEDNLDRHYNSTWMSRAENFKQV 672
DB 639 VLGGSGGVFKCIIAVAPSVRWYEDSVYTERVNGLPTPEDNLDRHYNSTWMSRAENFKQV 698

QY 673 EYLLIHGTADDNVHFQOQAISKALVDGVDFQAWWYTDHGIASSTAHOIYTHMSHF 732
DB 699 EYLLIHGTADDNVHFQOQAISKALVDGVDFQAWWYTDHGIASSTAHOIYTHMSHF 758

QY 733 IKQCFSLP 740
DB 759 IKQCFSLP 766

RESULT 14

ABM80355
ID ABM80355 standard; protein; 766 AA.

XX AC ABM80355;

XX 18-NOV-2004 (first entry)

XX Tumour-associated antigenic target (TAT) polypeptide PRO80881, SEQ:895.

XX Tumour-associated antigenic target; TAT; human; overexpression; cancer;
KW tumour; diagnosis; cell proliferative disorder; breast cancer;
KW colorectal cancer; lung cancer; ovarian cancer; liver cancer;
KW central nervous system cancer; bladder cancer; pancreatic cancer;
KW cervical cancer; melanoma; leukaemia; hybridisation probe;
KW chromosome identification; chromosome mapping; gene mapping;
KW gene therapy; cytostatic.

XX Homo sapiens.

XX WO2004030615-A2.

XX 15-APR-2004.

XX 29-SEP-2003; 2003WO-US028547.

XX 02-OCT-2002; 2002US-0414971P.

XX (GETH) GENENTECH INC.

XX Wu TD, Zhang Z, Zhou Y;

XX WPI; 2004-347921/32.

XX N-PSDB; ACN37783.

XX New tumor-associated antigenic target polypeptides and nucleic acids,
PT useful in preparing a medicament for treating or detecting a
PT proliferative disorder, e.g. breast, lung, colorectal, ovarian or
PT prostate cancer or tumor.

XX Claim 12; SEQ ID NO 895; 7273pp; English.

XX The invention relates to human tumour-associated antigenic target (TAT)
XX polypeptides, and their related nucleic acids. The TAT polypeptides are
XX overexpressed in cancer tissues compared to normal tissues, and may thus
XX serve as effective targets for the diagnosis and treatment of cancer in
XX mammals. The invention also relates to nucleic acid and polypeptide
XX sequences at least 80% identical to the TAT nucleic acids and
XX polypeptides; expression vectors and host cells comprising a TAT nucleic
XX acid; an antibody specific for a TAT polypeptide; a peptide or organic
XX molecule which binds to a TAT polypeptide; fusion proteins comprising a
XX TAT polypeptide; and methods and compositions for the treatment or
XX diagnosis of cancer in mammals. TAT polypeptides, nucleic acids,
XX antibodies, antagonists, binding molecules and compositions are useful
XX for diagnosing or treating a cell proliferative disorder associated with
XX increased TAT expression, particularly cancers such as breast cancer,
XX colorectal cancer, lung cancer, ovarian cancer, liver cancer, bladder
XX cancer, pancreatic cancer, cervical cancer, cancers of the central
XX nervous system, melanoma and leukaemia. TAT nucleic acids may further be
XX used as hybridisation probes, in chromosome and gene mapping, in
XX chromosome identification and in gene therapy. The present sequence
XX represents a TAT polypeptide of the invention

RESULT 12
 ADO71612
 ID ADO71612 standard; protein; 766 AA.
 XX
 AC ADO71612;
 DT 26-AUG-2004 (first entry)
 XX
 DE Amino acid sequence of a human CD26 protein.
 XX
 KW CD26; chemotherapeutic; radiotherapeutic; cancer; cell growth;
 KW dipeptidyl peptidase IV; DPPIV; topoisomerase II inhibitor;
 KW cell cycle arrest; tumour; tumour necrosis; immune response; human.
 XX
 OS Homo sapiens.
 XX
 PN WO2004045497-A2.
 XX
 PD 03-JUN-2004.
 XX
 PF 15-MAY-2003; 2003WO-US015499.
 XX
 PR 17-MAY-2002; 2002US-0381606P.
 XX
 PA (TEXA) UNIV TEXAS SYSTEM.
 XX
 PI Dang NH, Morimoto C;
 XX
 DR WPI; 2004-420511/39.
 XX
 DR N-PSDB; ADO71611, ADO71613.
 XX
 PT Use of a CD26 composition, and a chemotherapeutic and/or a
 PT radiotherapeutic agent for e.g. inhibiting the cell growth, inducing cell
 PT cycle arrest, killing a cancer cell, treating cancer, or inducing tumor
 PT regression or tumor necrosis.
 XX
 PS Claim 23; Page 151-153; 182pp; English.
 XX
 CC The specification describes a CD26 composition which, in conjunction with
 CC chemotherapeutic or radiotherapeutic agents, is used for the treatment
 CC and prevention of cancers. Expression of CD26 enhances the sensitivity of
 CC the cancer cell to the chemotherapeutic or radiotherapeutic agent. CD26
 CC is a dipeptidyl peptidase IV (DPPIV). The chemotherapeutic agent is a
 CC topoisomerase II inhibitor. The CD26 composition of the invention is
 CC useful for inhibiting the growth of a cell, inducing cell cycle arrest in
 CC a cell, killing a cancer cell, potentiating the effect of a
 CC chemotherapeutic agent and/or a radiotherapeutic agent on a tumour cell,
 CC inducing or enhancing apoptosis of a cancer cell, treating cancer, or
 CC inducing tumour regression or tumour necrosis. The CD26 composition is
 CC further useful for increasing topoisomerase II expression in a cell, for
 CC activating an antigen-presenting cell, or for potentiating immune
 CC responses of an animal. The present sequence represents a CD26 protein,
 CC and is encoded by vectors which are used to produce compositions of the
 CC invention.
 XX
 SQ Sequence 766 AA;

Query Match 98.0%; Score 3939; DB 8; Length 766;
 Best Local Similarity 100.0%; Pred. NO. 0;
 Matches 728; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 13 SRKTYTLTDVLTQYTRKLSLRWISDHELYLKQENNLVFNAYGNSSVFLNSPDEF 72
 |||||
 DB 39 SRKTYTLTDVLTQYTRKLSLRWISDHELYLKQENNLVFNAYGNSSVFLNSPDEF 98
 |||||
 QY 73 GHSINDYSIPDQGFILLENNYKQWRHSYASDYIDLKROLITEERIPNNTQWTVS 132
 |||||
 DB 99 GHSINDYSIPDQGFILLENNYKQWRHSYASDYIDLKROLITEERIPNNTQWTVS 158
 |||||
 QY 133 PVGHKLAYVWNNDIYVKIEPNLPSYRITWTGKEDIYNGITDWTYEEVFSAYSLWSP 192
 |||||
 DB 159 PVGHKLAYVWNNDIYVKIEPNLPSYRITWTGKEDIYNGITDWTYEEVFSAYSLWSP 218
 |||||

QY 193 NGTFLAYAQNDTEVPLIEYSFYSDLESLOYPKTVRVPYKAGAVNPTVKPFVNTDSLSS 252
 |||||
 DB 219 NGTFLAYAQNDTEVPLIEYSFYSDLESLOYPKTVRVPYKAGAVNPTVKPFVNTDSLSS 278
 |||||
 QY 253 VTNATSIQITAPASMLIGDHYLCDVTWATQERISLQWLRRIQNYSVMDICDYDESSGRWN 312
 |||||
 DB 279 VTNATSIQITAPASMLIGDHYLCDVTWATQERISLQWLRRIQNYSVMDICDYDESSGRWN 338
 |||||
 QY 313 CLVARQHIENSTTGWGRFRPSPHFTLDGNSFPFKIISNEEGYRHCYFQIDKKDCTFIT 372
 |||||
 DB 339 CLVARQHIENSTTGWGRFRPSPHFTLDGNSFPFKIISNEEGYRHCYFQIDKKDCTFIT 398
 |||||
 QY 373 KGTWEVIGIEALTSYLYISNEYKMGPGGRNLYKIQLSYTKVTCISCELNPERCOYYS 432
 |||||
 DB 399 KGTWEVIGIEALTSYLYISNEYKMGPGGRNLYKIQLSYTKVTCISCELNPERCOYYS 458
 |||||
 QY 433 VFSKEAKYYQLRCSGPGPLTYLTHSSVNDKGLRVLEDNSALDKMLQNVQMPSSKGLDFII 492
 |||||
 DB 459 VFSKEAKYYQLRCSGPGPLTYLTHSSVNDKGLRVLEDNSALDKMLQNVQMPSSKGLDFII 518
 |||||
 QY 493 LNETKFWYQMLPPHFDKSKYPLLLDVYAGPCSQKADTVFRLNWTATYLASTENIIVASF 552
 |||||
 DB 519 LNETKFWYQMLPPHFDKSKYPLLLDVYAGPCSQKADTVFRLNWTATYLASTENIIVASF 578
 |||||
 QY 553 DGRSGGYQGDKIMHAINRRIGTPEVEDQIEAARQFSKMGFVNDKRIAIWGSYGVYVTSM 612
 |||||
 DB 579 DGRSGGYQGDKIMHAINRRIGTPEVEDQIEAARQFSKMGFVNDKRIAIWGSYGVYVTSM 638
 |||||
 QY 613 VLGSQGVFKGIAVAPVSRWEYYDSVYTERYMGLEPTPEDNLDRHNSVTMSRAENFKQV 672
 |||||
 DB 639 VLGSQGVFKGIAVAPVSRWEYYDSVYTERYMGLEPTPEDNLDRHNSVTMSRAENFKQV 698
 |||||
 QY 673 EYLLIHGTADDNVHFQOQAQISKALVDVGVDFQAMWYTTDDHDGIASSTAHOHIYTHMSHF 732
 |||||
 DB 699 EYLLIHGTADDNVHFQOQAQISKALVDVGVDFQAMWYTTDDHDGIASSTAHOHIYTHMSHF 758
 |||||
 QY 733 IKOCFSLP 740
 |||||
 DB 759 IKOCFSLP 766
 |||||
 RESULT 13
 ADO71644
 ID ADO71644 standard; protein; 766 AA.
 XX
 AC ADO71644;
 XX
 DT 26-AUG-2004 (first entry)
 XX
 DE Amino acid sequence of a human CD26 protein.
 XX
 KW CD26; chemotherapeutic; radiotherapeutic; cancer; cell growth;
 KW dipeptidyl peptidase IV; DPPIV; topoisomerase II inhibitor;
 KW cell cycle arrest; tumour; tumour necrosis; immune response; human.
 XX
 OS Homo sapiens.
 XX
 PN WO2004045497-A2.
 XX
 PD 03-JUN-2004.
 XX
 PF 15-MAY-2003; 2003WO-US015499.
 XX
 PR 17-MAY-2002; 2002US-0381606P.
 XX
 PA (TEXA) UNIV TEXAS SYSTEM.
 XX
 PI Dang NH, Morimoto C;
 XX
 DR WPI; 2004-420511/39.
 XX
 DR N-PSDB; ADO71643.
 XX

Db 339 CLVARQHIEMSTTGWVGRFRSEPHFTLDGNSFYKIIISNEGYRHCYFQIDKKDCTFIT 398
Qy 373 KGTWEVIGIEALTSDYLYIISNEYKMGPGGRNLYKIQLSDYTKVTCLSCELNPERCQYYS 432
Db 399 KGTWEVIGIEALTSDYLYIISNEYKMGPGGRNLYKIQLSDYTKVTCLSCELNPERCQYYS 458
Qy 433 VSFSKEAKYQLRCSGPGGLPLYTLHSSVNDKGLRVLEDNSALDKMLQNVQMPSKKLDPII 492
Db 459 VSFSKEAKYQLRCSGPGGLPLYTLHSSVNDKGLRVLEDNSALDKMLQNVQMPSKKLDPII 518
Qy 493 LNETKFWYQMLPPHFDKSKYPLLLDYYAGPCSKADTVFRLNWTATYLASTENIIIVASF 552
Db 519 LNETKFWYQMLPPHFDKSKYPLLLDYYAGPCSKADTVFRLNWTATYLASTENIIIVASF 578
Qy 553 DGRSGYOGDKIMHAINRRLGTFEVDQIEAARQFSKMGFVDNKRKIAIWGNSYGGYVTSM 612
Db 579 DGRSGYOGDKIMHAINRRLGTFEVDQIEAARQFSKMGFVDNKRKIAIWGNSYGGYVTSM 638
Qy 613 VLGSFGVFKCGIAVAPVSRWEYDVSVYTERYMGLTPTPEDNLDHYRNSTVMSRAENFKQV 672
Db 639 VLGSFGVFKCGIAVAPVSRWEYDVSVYTERYMGLTPTPEDNLDHYRNSTVMSRAENFKQV 698
Qy 673 EYLLIHGTADNVHVFQQAQISKALVDVGVDFQAMWYTDDEHGIIASSTAHOHIYTHMSHP 732
Db 699 EYLLIHGTADNVHVFQQAQISKALVDVGVDFQAMWYTDDEHGIIASSTAHOHIYTHMSHP 758
Qy 733 IKQCFSLP 740
Db 759 IKQCFSLP 766
RESULT 11
ID ADO19806
ID ADO19806 standard; protein; 766 AA.
XX AC ADO19806;
XX 12-AUG-2004 (first entry)
DT XX Human PRO polypeptide #365.
DE XX
XX Human; PRO; immune related disorder; systemic lupus erythematosus;
KW rheumatoid arthritis; osteoarthritis; juvenile chronic arthritis;
KW systemic sclerosis; Sjogren's syndrome; vasculitis; sarcoidosis;
KW autoimmune haemolytic anaemia; autoimmune thrombocytopenia; thyroiditis;
KW diabetes mellitus; renal disease; demyelinating disease;
KW central nervous system; peripheral nervous system;
KW demyelinating polyneuropathy; Guillain-Barre syndrome;
KW chronic inflammatory demyelinating polyneuropathy.
XX OS Homo sapiens.
XX WO2004043361-A2.
PN 27-MAY-2004.
XX PD
XX 06-NOV-2003; 2003WO-US035268.
XX PF
XX 08-NOV-2002; 2002US-0425235P.
XX PR
XX (GETH) GENENTECH INC.
XX PA
XX Fong S, Dennis K, Clark H, Chiu H, Schoenfeld J, Williams PM;
PI Wood WI, Wu TD;
PI
XX WPI; 2004-420067/39.
DR N-PSDB; ADO19805.
XX
XX Novel PRO polypeptide e.g., PRO69614, PRO71106, or PRO86388 useful for
PT treating an immune related disorder such as systemic lupus erythematosus,
PT rheumatoid arthritis, osteoarthritis, juvenile chronic arthritis or
PT spondyloarthropathy.
XX

PS Claim 7; SEQ ID NO 730; 1731pp; English.
XX The invention relates to human PRO polypeptides and the polynucleotides
CC encoding them. The polypeptides and polynucleotides are useful for
CC treating and diagnosing immune related disorders in mammals. The immune
CC related disorders include systemic lupus erythematosus, rheumatoid
CC arthritis, osteoarthritis, juvenile chronic arthritis, systemic
CC sclerosis, Sjogren's syndrome, vasculitis, sarcoidosis, autoimmune
CC haemolytic anaemia, autoimmune thrombocytopenia, thyroiditis, diabetes
CC mellitus, immune-mediated renal disease, demyelinating diseases of the
CC central or peripheral nervous system, demyelinating polyneuropathy,
CC Guillain-Barre syndrome and chronic inflammatory demyelinating
CC polyneuropathy. This sequence represents a human PRO polypeptide of the
XX invention.
SQ Sequence 766 AA;
Query Match 98.0%; Score 3939; DB 8; Length 766;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 728; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 13 SRKTYTTLTDYLNKTYRLKLYSLRWISDHEYLKQENNLVFNAEYGNSSVFLNSTFDF 72
Db 39 SRKTYTTLTDYLNKTYRLKLYSLRWISDHEYLKQENNLVFNAEYGNSSVFLNSTFDF 98
Qy 73 GHSINDYSISPDGQFILLEYNVYKQWRHSYASVDIYDLNKRQLITEBRIPNNTQVWTWS 132
Db 99 GHSINDYSISPDGQFILLEYNVYKQWRHSYASVDIYDLNKRQLITEBRIPNNTQVWTWS 158
Qy 133 PVGHKLAYVWNDIYVKIEPNLPSYRITWTCKEDIIYNGITDWDYEEVFSAYSLAWSP 192
Db 159 PVGHKLAYVWNDIYVKIEPNLPSYRITWTCKEDIIYNGITDWDYEEVFSAYSLAWSP 218
Qy 193 NGTFLAYAQFNDTEVPLIEYSFYSDSELYQPKTVRVPYKAGAVNPTVKFFVNTDSLSS 252
Db 219 NGTFLAYAQFNDTEVPLIEYSFYSDSELYQPKTVRVPYKAGAVNPTVKFFVNTDSLSS 278
Qy 253 VTNATSIQITAPASMLIGDHYLDCVWTWATERISLQWLRRIONYSVMDICDYDESSGRWN 312
Db 279 VTNATSIQITAPASMLIGDHYLDCVWTWATERISLQWLRRIONYSVMDICDYDESSGRWN 338
Qy 313 CLVARQHIEMSTTGWVGRFRSEPHFTLDGNSFYKIIISNEGYRHCYFQIDKKDCTFIT 372
Db 339 CLVARQHIEMSTTGWVGRFRSEPHFTLDGNSFYKIIISNEGYRHCYFQIDKKDCTFIT 398
Qy 373 KGTWEVIGIEALTSDYLYIISNEYKMGPGGRNLYKIQLSDYTKVTCLSCELNPERCQYYS 432
Db 399 KGTWEVIGIEALTSDYLYIISNEYKMGPGGRNLYKIQLSDYTKVTCLSCELNPERCQYYS 458
Qy 433 VSFSKEAKYQLRCSGPGGLPLYTLHSSVNDKGLRVLEDNSALDKMLQNVQMPSKKLDPII 492
Db 459 VSFSKEAKYQLRCSGPGGLPLYTLHSSVNDKGLRVLEDNSALDKMLQNVQMPSKKLDPII 518
Qy 493 LNETKFWYQMLPPHFDKSKYPLLLDYYAGPCSKADTVFRLNWTATYLASTENIIIVASF 552
Db 519 LNETKFWYQMLPPHFDKSKYPLLLDYYAGPCSKADTVFRLNWTATYLASTENIIIVASF 578
Qy 553 DGRSGYOGDKIMHAINRRLGTFEVDQIEAARQFSKMGFVDNKRKIAIWGNSYGGYVTSM 612
Db 579 DGRSGYOGDKIMHAINRRLGTFEVDQIEAARQFSKMGFVDNKRKIAIWGNSYGGYVTSM 638
Qy 613 VLGSFGVFKCGIAVAPVSRWEYDVSVYTERYMGLTPTPEDNLDHYRNSTVMSRAENFKQV 672
Db 639 VLGSFGVFKCGIAVAPVSRWEYDVSVYTERYMGLTPTPEDNLDHYRNSTVMSRAENFKQV 698
Qy 673 EYLLIHGTADNVHVFQQAQISKALVDVGVDFQAMWYTDDEHGIIASSTAHOHIYTHMSHP 732
Db 699 EYLLIHGTADNVHVFQQAQISKALVDVGVDFQAMWYTDDEHGIIASSTAHOHIYTHMSHP 758
Qy 733 IKQCFSLP 740
Db 759 IKQCFSLP 766

PT New crystal of dipeptidyl peptidase IV capable of analyzing its three-
PT dimensional structure, useful for designing, identifying, evaluating or
XX searching an effector of the dipeptidyl peptidase IV.

PS Claim 3; SEQ ID NO 2; 332pp; English.

XX The invention relates to a novel crystal of a dipeptidyl peptidase IV
CC (DPPIV) which is sufficient to ensure a resolution capable of analyzing
CC its three-dimensional structure up to the side chain level by X-ray
CC crystallographic structural analysis. The crystal of the invention
CC demonstrates immunomodulatory, antidiabetic, antiinflammatory,
CC neuroprotective, antithyroid, antirheumatic, antiarthritic, anti-HIV and
CC cystostatic activities and may be useful for providing a three-dimensional
CC structural coordinate as the information for designing, identifying,
CC evaluating or searching for an effector of the dipeptidyl peptidase IV.
CC The effector may be useful as a modulatory agent of immune response and
CC as a therapeutic or prophylactic agent for diabetes, inflammation, AIDS
CC multiple sclerosis, Grave's disease, chronic rheumatoid arthritis, AIDS
CC or cancer. The current sequence is that of the human full-length colon
CC dipeptidyl peptidase IV (DPPIV) protein of the invention.

SQ Sequence 766 AA;

Query Match 98.0%; Score 3939; DB 8; Length 766;

Best Local Similarity 100.0%; Pred. No. 0;

Matches 728; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 13 SRKTYTLDTYKNTYRLKLSLRWISDHEYLKQENNLIVFNAEYGNSSVFLNSTPDEF 72
DB 39 SRKTYTLDTYKNTYRLKLSLRWISDHEYLKQENNLIVFNAEYGNSSVFLNSTPDEF 98
QY 73 GHSINDYSIPDQFILLEYNVVKQWRHSYASYDIYDLNKRQLITEIRIPNNTQVWTWS 132
DB 99 GHSINDYSIPDQFILLEYNVVKQWRHSYASYDIYDLNKRQLITEIRIPNNTQVWTWS 158
QY 133 PVGHKLAVVWNNDIYVKIEPNLPSYRITWTGKEDIYNGITDWTVEEVEFSYSLWVSP 192
DB 159 PVGHKLAVVWNNDIYVKIEPNLPSYRITWTGKEDIYNGITDWTVEEVEFSYSLWVSP 218
QY 193 NGTFAYAQFNDETEPLLEYSPYSDLSQYPTKVRVPYKAGVNPYKVFVNTDLSLS 252
DB 219 NGTFAYAQFNDETEPLLEYSPYSDLSQYPTKVRVPYKAGVNPYKVFVNTDLSLS 278
QY 253 VTNATSIQITAPASMLIGHYLCVDTWATQERISLQWLRRIQNSVMDICDYDESSGRWN 312
DB 279 VTNATSIQITAPASMLIGHYLCVDTWATQERISLQWLRRIQNSVMDICDYDESSGRWN 338
QY 313 CLVARQHIEMSTGWGRPRPSEPHFTLDGNSFYKIIISNEEGYRHI CYFQIDKKDCTFIT 372
DB 339 CLVARQHIEMSTGWGRPRPSEPHFTLDGNSFYKIIISNEEGYRHI CYFQIDKKDCTFIT 398
QY 373 KGTWEVIGIEALTSYLYYISNEYKMGPGRNLYKIQSDYTKVTCLSCELPNRCQVYS 432
DB 399 KGTWEVIGIEALTSYLYYISNEYKMGPGRNLYKIQSDYTKVTCLSCELPNRCQVYS 458
QY 433 VFSFKEAKYQLRCSGPGPLTYLTHSSVNDKGLRVLEDSALDKMLQNVQMSKKLDFII 492
DB 459 VFSFKEAKYQLRCSGPGPLTYLTHSSVNDKGLRVLEDSALDKMLQNVQMSKKLDFII 518
QY 493 LNETKFWQMIPLPHFDKSKYPLLLDDVYVAGCSQKADTVFRLNWTYLASTENIIVASF 552
DB 519 LNETKFWQMIPLPHFDKSKYPLLLDDVYVAGCSQKADTVFRLNWTYLASTENIIVASF 578
QY 553 DGRSGSGYQGDKTWHAIRNRLGTFEVEDQIEAARQFSKMGFVNDKRIATWGSYGGVVTSM 612
DB 579 DGRSGSGYQGDKTWHAIRNRLGTFEVEDQIEAARQFSKMGFVNDKRIATWGSYGGVVTSM 638
QY 613 VLGSFGVFKCIGIAPVSRMEYDYSYTERYMGFLPTPEDNLDRHNSVWMSRAENFKQV 672
DB 639 VLGSFGVFKCIGIAPVSRMEYDYSYTERYMGFLPTPEDNLDRHNSVWMSRAENFKQV 698
QY 673 EYLLIHGTADDNVHFQOQSAQISKALVDVGVDFOAMWYTDDEHGIASSTAHOIYTHMSHF 732

Db 699 EYLLIHGTADDNVHFQOQSAQISKALVDVGVDFOAMWYTDDEHGIASSTAHOIYTHMSHF 758
QY 733 IKQCFSLP 740
DB 759 IKQCFSLP 766

RESULT 9

ADJ75313

ID ADJ75313 standard; protein; 766 AA.

XX ADJ75313;

XX 20-MAY-2004 (first entry)

XX Marker gene related amino acid sequence SEQ ID NO:565.

XX bronchial asthma; chronic obstructive pulmonary disease;

KW respiratory epithelial cell; interleukin-13; respiratory; antiasthmatic;
KW gene therapy; marker.

XX Homo sapiens.

XX EPI394274-A2.

XX 03-MAR-2004.

XX 04-AUG-2003; 2003EP-00254857.

XX 06-AUG-2002; 2002JP-00229312.

XX 20-MAR-2003; 2003JP-00077212.

XX (GENO-) GENOX RES INC.

XX Ohtani N, Sugita Y, Yamaya M, Kubo H, Nagai H, Izuwara K;

XX WPI; 2004-193155/19.

XX Testing for bronchial asthma or chronic obstructive pulmonary disease by
PT comparing the expression level of a marker gene in a biological sample
PT from a subject with the expression level of the gene in a sample from a
PT healthy subject.

XX Example 11; SEQ ID NO 565; 241pp; English.

XX The present invention describes a method of testing for bronchial asthma
CC or chronic obstructive pulmonary disease. The method comprises
CC determining the expression level of a marker gene in a biological sample
CC from a subject, comparing the expression level determined with the
CC expression level of the marker gene in a biological sample from a healthy
CC subject, and judging whether the subject has bronchial asthma or chronic
CC obstructive pulmonary disease. The marker gene comprises: (a) a group of
CC genes (S1) whose expression levels increase when respiratory epithelial
CC cells are stimulated with interleukin-13; or (b) a group of genes (S2)
CC whose expression levels decrease when respiratory epithelial cells are
CC stimulated with interleukin-13. Also described: (1) a reagent (1) for
CC testing for bronchial asthma or chronic obstructive pulmonary disease;
CC (2) a kit for screening for a candidate compound for a therapeutic agent
CC to treat bronchial asthma or chronic obstructive pulmonary disease; (3)
CC an animal model for bronchial asthma or chronic obstructive pulmonary
CC disease; (4) an inducer that induces bronchial asthma in a mouse; (5) a
CC method for producing an animal model for bronchial asthma or chronic
CC obstructive pulmonary disease; (6) a therapeutic agent for bronchial
CC asthma or chronic obstructive pulmonary disease, comprising the compound,
CC the marker gene or an antisense nucleic acid corresponding to a portion of
CC the marker gene, a ribozyme, a polynucleotide that suppresses the
CC expression of the gene through an RNAi effect or an antibody recognising
CC a protein encoded by a marker gene; and (7) a DNA chip for testing for
CC bronchial asthma or a chronic obstructive pulmonary disease, on which a
CC probe has been immobilised to assay a marker gene. (1) has respiratory
CC and antiasthmatic activities, and can be used in gene therapy. The method
CC is useful for testing for screening for a therapeutic agent for
CC bronchial asthma or chronic obstructive pulmonary disease. The present

PF 13-NOV-2002; 2002WO-US036810.
XX 13-NOV-2001; 2001US-0350666P.
PR 21-NOV-2001; 2001US-0332464P.
PR 29-NOV-2001; 2001US-0334393P.
PR 03-DEC-2001; 2001US-0335394P.
PR 14-DEC-2001; 2001US-0340376P.
PR 08-JAN-2002; 2002US-0347211P.
PR 10-JAN-2002; 2002US-0347349P.
PR 08-FEB-2002; 2002US-0355250P.
PR 13-FEB-2002; 2002US-0356714P.
PR 20-FEB-2002; 2002US-0359077P.
PR 29-MAR-2002; 2002US-0368809P.
PR 04-APR-2002; 2002US-0370110P.
PR 12-APR-2002; 2002US-0372246P.
PR 05-JUN-2002; 2002US-0386614P.
PR 16-JUL-2002; 2002US-0396839P.
PR 22-JUL-2002; 2002US-0397775P.
PR 22-JUL-2002; 2002US-0397845P.
PR 09-SEP-2002; 2002US-0409450P.
XX (EOSB-) EOS BIOTECHNOLOGY INC.
PA Afar D, Aziz N, Ginsburg WM, Gish KC, Glynn R, Hevezi PA;
PI Mack DH, Murray R, Watson SR, Wilson KE, Zlotnik A;
XX WPI; 2003-468649/44.
XX N-PSDB; ADN39271.
XX Determining the presence or absence of a pathological cell in a patient,
PT useful for diagnosing, prognosing or treating cancer, comprises detecting
PT a nucleic acid in a biological sample.
XX Claim 12; SEQ ID NO 590; 1385pp; English.
XX The invention relates to nucleic acids and proteins (ADN38683-ADN40064)
CC whose expression is upregulated or downregulated in specific cancers or
CC other diseases such as angiogenic or fibrotic disorders, and to methods
CC of determining the presence or absence of a pathological cell in a
CC patient by detecting a nucleic acid at least 80% identical to those of
CC the invention or by detecting a polypeptide of the invention. The
CC invention also relates to expression vectors and host cells comprising a
CC nucleic acid of the invention; antibodies which specifically bind a
CC polypeptide of the invention; use of such antibodies for drug targeting;
CC and methods of screening for modulators of activity or expression of the
CC polypeptides and nucleic acids. The nucleic acids, polypeptides,
CC antibodies and methods are useful for diagnosing, prognosing and treating
CC cancer and other conditions such as psoriasis, ischaemia, heart disease,
CC atherosclerosis, inflammatory diseases, autoimmune diseases, retinal
CC neovascularisation syndromes, scarring and uterine fibroids. They may
CC also be useful in wound healing and in contraception. The present
CC sequence represents a polypeptide of the invention.
XX SQ Sequence 766 AA;
Query March 98.0%; Score 3939; DB 7; Length 766;
Best Local Similarity 100.0%; Pred. NO. 0;
Matches 728; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 13 SRKTYTLTDYKNTYRLKLSLRWISDHELYLKQENNLVFNAYGNSSVFLNSTFDEF 72
DB 39 SRKTYTLTDYKNTYRLKLSLRWISDHELYLKQENNLVFNAYGNSSVFLNSTFDEF 98
QY 73 GHSINDYSISPDGQFILLENNYKQWRHSYTSYDIYDLNKRQLITEERIPNNQTWTS 132
DB 99 GHSINDYSISPDGQFILLENNYKQWRHSYTSYDIYDLNKRQLITEERIPNNQTWTS 158
QY 133 PVGHKLAYVWNNDIYVKIEBNLPSYRITWTGKEDIYNGITDVIYEEVFSAYSLWSP 192
DB 159 PVGHKLAYVWNNDIYVKIEBNLPSYRITWTGKEDIYNGITDVIYEEVFSAYSLWSP 218
QY 193 NGTFLAYAQFNDTEVPLIEYSFYSDESLOQPKTVRVPYKAGAVNPTVKFPVNTDLSLS 252

DB 219 NGTFLAYAQFNDTEVPLIEYSFYSDESLOQPKTVRVPYKAGAVNPTVKFPVNTDLSLS 278
QY 253 VTNATSIQITAPASMLIGDHYLCDVTWATQERISLOWLRRIONYSVMDICDYDESSGRWN 312
DB 279 VTNATSIQITAPASMLIGDHYLCDVTWATQERISLOWLRRIONYSVMDICDYDESSGRWN 338
QY 313 CLVARQHIEMSTGWGRFRPSPHPTLDGNSFYKIIISNEEGYRHCYFQIDKKDCFTIT 372
DB 339 CLVARQHIEMSTGWGRFRPSPHPTLDGNSFYKIIISNEEGYRHCYFQIDKKDCFTIT 398
QY 373 KGTWEVIGIEALTSYLYIISNEYKGMFGGRNLYKIQLSYTKVTCLSCELNPERCQYS 432
DB 399 KGTWEVIGIEALTSYLYIISNEYKGMFGGRNLYKIQLSYTKVTCLSCELNPERCQYS 458
QY 433 VSPSKEAKYQLRCSGFGLPLYTLHSSVNDKGLRVLEDNSALDQMLQNVQWPSKKLPFI 492
DB 459 VSPSKEAKYQLRCSGFGLPLYTLHSSVNDKGLRVLEDNSALDQMLQNVQWPSKKLPFI 518
QY 493 LNETKFWYQMLPPHFDKSKYPLLLDVYAGCSOKADTVFRLNWTATYLASTENIIIVASF 552
DB 519 LNETKFWYQMLPPHFDKSKYPLLLDVYAGCSOKADTVFRLNWTATYLASTENIIIVASF 578
QY 553 DGRSGYQGDKIMHAINRRIGTFEVEDQIEAARQFSKMGFVDNKRKRIAGWSYGGYVTSM 612
DB 579 DGRSGYQGDKIMHAINRRIGTFEVEDQIEAARQFSKMGFVDNKRKRIAGWSYGGYVTSM 638
QY 613 VLGSQGVFKCGIATAVPVSRWEYDVSYYTERYNGLPTPEDNLDHYRNSTVMSRAENPKQV 672
DB 639 VLGSQGVFKCGIATAVPVSRWEYDVSYYTERYNGLPTPEDNLDHYRNSTVMSRAENPKQV 698
QY 673 EYLLIHGTADDNVHFQOQSAQISKALVDVGVDFQAMWYTDSDHGIASSTAHOHIYTHMSHP 732
DB 699 EYLLIHGTADDNVHFQOQSAQISKALVDVGVDFQAMWYTDSDHGIASSTAHOHIYTHMSHP 758
QY 733 IKQCFSLP 740
DB 759 IKQCFSLP 766
RESULT 8
ADJ83981
ID ADJ83981 standard; protein; 766 AA.
XX AC ADJ83981;
XX DT 06-MAY-2004 (first entry)
XX DE Human full-length colon dipeptidyl peptidase IV (DPPIV) protein.
XX KW crystal; proteni co-ordinate data; dipeptidyl peptidase IV; DPPIV;
KW immunomodulatory; antidiabetic; antiinflammatory; neuroprotective;
KW antithyroid; antirheumatic; antiarthritic; anti-Hiv; cytostatic;
KW immune response; diabetes; inflammation; multiple sclerosis;
KW Grave's disease; chronic rheumatoid arthritis; AIDS; cancer; human;
KW colon; enzyme.
XX OS Homo sapiens.
XX PN WO2004011640-A1.
XX PD 05-FEB-2004.
XX PF 28-JUL-2003; 2003WO-JP009523.
XX PR 29-JUL-2002; 2002US-0398761P.
XX PA (TANA) TANABE SEIYAKU CO.
XX PI Hiramatsu H, Kyono K, Shima H, Sugiyama S;
XX WPI; 2004-156830/15.
XX DR N-PSDB; ADJ83980.
XX

DT 02-DEC-2004 (revised)
 XX 29-JAN-2004 (first entry)
 DE Human Protein AAA52308, SEQ ID NO 12620.
 XX Human; pain; neuronal tissue; gene therapy;
 KW spinal segmental nerve injury; chronic constriction injury; CCI;
 KW spared nerve injury; SNI; Chung.
 XX Homo sapiens.
 OS Unidentified.
 XX WO2003016475-A2.
 XX 27-FEB-2003.
 XX 14-AUG-2002; 2002WO-US025765.
 XX 14-AUG-2001; 2001US-0312147P.
 PR 01-NOV-2001; 2001US-0346382P.
 PR 26-NOV-2001; 2001US-0333347P.
 XX (GEO) GEN HOSPITAL CORP.
 PA (FAR) BAYER AG.
 XX Woolf C, D'urso D, Befort K, Costigan M;
 PI WPI; 2003-268312/26.
 DR GENBANK; AAA52308.
 XX
 PT New composition comprising two or more isolated polypeptides, useful for
 PT preparing a medicament for treating pain in an animal.
 XX Example 1; Page; 1017pp; English.
 XX The invention discloses a composition comprising two or more isolated rat
 CC or human polynucleotides or a polynucleotide which represents a fragment,
 CC derivative or allelic variation of the nucleic acid sequence. Also
 CC claimed are a vector comprising the novel polynucleotide, a host cell
 CC comprising the vector, a method for identifying a nucleotide sequence
 CC which is differentially regulated in an animal subjected to pain and a
 CC kit to perform the method, an array, a method for identifying an agent
 CC that increases or decreases the expression of the polynucleotide sequence
 CC that is differentially expressed in neuronal tissue of a first animal
 CC subjected to pain, a method for identifying a compound which regulates
 CC the expression of a polynucleotide sequence which is differentially
 CC expressed in an animal subjected to pain, a method for identifying a
 CC compound that regulates the activity of one or more of the
 CC polynucleotides, a method for producing a pharmaceutical composition, a
 CC method for identifying a compound or small molecule that regulates the
 CC activity in an animal of one or more of the polypeptides given in the
 CC specification, a method for identifying a compound useful in treating
 CC pain and a pharmaceutical composition comprising the one or more
 CC polypeptides or their antibodies. The polynucleotide or the compound that
 CC modulates its activity is useful for preparing a medicament for treating
 CC pain (e.g. spinal segmental nerve injury (Chung), chronic constriction
 CC injury (CCI) and spared nerve injury (SNI)) in an animal (e.g. gene
 CC therapy). The sequence presented is a human protein (described in Table 3
 CC of the specification) which is differentially expressed during pain.
 CC Note: The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic form directly from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences.
 XX Sequence 766 AA;
 SQ
 Query Match 98.0%; Score 3939; DB 7; Length 766;
 Best Local Similarity 100.0%; Pred. No. 0;
 Matches 728; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 13 SRKTYLTDLKNTYRLKLYSLRWISDHEYLKQENNLILVFNAYGNSVFLSENSTFDEF 72
 DB 39 SRKTYLTDLKNTYRLKLYSLRWISDHEYLKQENNLILVFNAYGNSVFLSENSTFDEF 98

QY 73 GHSINDYSISPDGQFILLEYNVYVQWRHSYTASVDIYDLNKRQLITEERI PNNTQVWTWS 132
 DB 99 GHSINDYSISPDGQFILLEYNVYVQWRHSYTASVDIYDLNKRQLITEERI PNNTQVWTWS 158
 QY 133 PVGHKLAVVMNDIYVKLEPNLPSYRITWTCKEDIYNGITDWDVYEEVFSAYSALWSP 192
 DB 159 PVGHKLAVVMNDIYVKLEPNLPSYRITWTCKEDIYNGITDWDVYEEVFSAYSALWSP 218
 QY 193 NGTFLAQAQFNDTEVPLIEYSFYSDBSLQYPKTVRVPYPKAGAVNPTVKFFVNTDSLS 252
 DB 219 NGTFLAQAQFNDTEVPLIEYSFYSDBSLQYPKTVRVPYPKAGAVNPTVKFFVNTDSLS 278
 QY 253 VTNATSIQITAPASMLIGDHYLQDVWTATQBRISLOWLRRIONYSVMDICDYDESSGRWN 312
 DB 279 VTNATSIQITAPASMLIGDHYLQDVWTATQBRISLOWLRRIONYSVMDICDYDESSGRWN 338
 QY 313 CLVARQHIEMSTTGWGRFRPSEPHFTLDGNSFYKII SNEGYRHCYFQIDKDKCTFIT 372
 DB 339 CLVARQHIEMSTTGWGRFRPSEPHFTLDGNSFYKII SNEGYRHCYFQIDKDKCTFIT 398
 QY 373 KGTWEVIGIEALTSYLYYISNEYKMGPGGRNLYKIQLSDYTKVTCLSCELNPERCQYVS 432
 DB 399 KGTWEVIGIEALTSYLYYISNEYKMGPGGRNLYKIQLSDYTKVTCLSCELNPERCQYVS 458
 QY 433 VSFSKEAKYQIQRCSGPGPLIYTLHSSVNDKGLRVLEDNSALDKMLQNVQMPSEKLDFTI 492
 DB 459 VSFSKEAKYQIQRCSGPGPLIYTLHSSVNDKGLRVLEDNSALDKMLQNVQMPSEKLDFTI 518
 QY 493 LNETKFWYQMTILPHFDKSKYPLLLDYYAGPCSKADTVPRLNWATYLASTENIIVASF 552
 DB 519 LNETKFWYQMTILPHFDKSKYPLLLDYYAGPCSKADTVPRLNWATYLASTENIIVASF 578
 QY 553 DGRSGSYQGDKIMHAINRRLGTFFVEDQIEAARQFSKMGFVDNKRRIALWGSYGGYVTSM 612
 DB 579 DGRSGSYQGDKIMHAINRRLGTFFVEDQIEAARQFSKMGFVDNKRRIALWGSYGGYVTSM 638
 QY 613 VLGSYGKFGKGIAPVPSRWEYDVSVTERYMGUPTPEDNLDHYRNSTVMSRAENFKQV 672
 DB 639 VLGSYGKFGKGIAPVPSRWEYDVSVTERYMGUPTPEDNLDHYRNSTVMSRAENFKQV 698
 QY 673 EYLLHTGADDNVHFQQSAQISKALVDVGVDFQAMWYTDDEHGIIASSTAHOIYTHMSHF 732
 DB 699 EYLLHTGADDNVHFQQSAQISKALVDVGVDFQAMWYTDDEHGIIASSTAHOIYTHMSHF 758
 QY 733 IKQCFSLP 740
 DB 759 IKQCFSLP 766
 RESULT 7
 ADN39272
 ID ADN39272 standard; protein; 766 AA.
 XX ADN39272;
 AC ADN39272;
 XX 17-JUN-2004 (first entry)
 DT 17-JUN-2004 (first entry)
 XX 17-JUN-2004 (first entry)
 DE Cancer/angiogenesis/fibrosis-related polypeptide, SEQ ID NO:590.
 XX Human; differential expression; cancer; angiogenic disorder;
 KW fibrotic disorder; psoriasis; ischaemia; heart disease; atherosclerosis;
 KW inflammatory disease; autoimmune disease;
 KW retinal neovascularisation syndrome; scarring; uterine fibroid;
 KW detection; diagnosis; prognosis; drug screening; drug targeting;
 KW wound healing; contraception; cytostatic; cardiant; immunomodulatory;
 KW vullnerary; gene therapy; vaccine.
 XX Homo sapiens.
 OS Homo sapiens.
 XX WO2003042661-A2.
 XX 22-MAY-2003.
 XX

QY 373 KGTWEVIGIEALTSDLYYISNEYKMGPGGRNLYKIQLSDYTKVTKTCLSCENLPERCQYYS 432
|||||
Db 399 KGTWEVIGIEALTSDLYYISNEYKMGPGGRNLYKIQLSDYTKVTKTCLSCENLPERCQYYS 458
|||||
QY 433 VFSFKEAKYQLRCSGPGGLPLYTLHSSVNDKGLRVLEDNSALDKMLQNVQMPKCLDFII 492
|||||
Db 459 VFSFKEAKYQLRCSGPGGLPLYTLHSSVNDKGLRVLEDNSALDKMLQNVQMPKCLDFII 518
|||||
QY 493 LNETKFWYQMLPPHFDKSKKYPILLDVYAGPCSKQADTVFRLNWTATYLASTENIIVASF 552
|||||
Db 519 LNETKFWYQMLPPHFDKSKKYPILLDVYAGPCSKQADTVFRLNWTATYLASTENIIVASF 578
|||||
QY 553 DGRSGYGQDKIMHAINRRLGTFEVEDQIEAARQFSKMGFVNDKRIAIWGSYGYVTSM 612
|||||
Db 579 DGRSGYGQDKIMHAINRRLGTFEVEDQIEAARQFSKMGFVNDKRIAIWGSYGYVTSM 638
|||||
QY 613 VLGGSGVFKCGIAVAPVSRWEYDVSVYTERYMGGLPTPEDNLDHYRNSTVMSRAENFKQV 672
|||||
Db 639 VLGGSGVFKCGIAVAPVSRWEYDVSVYTERYMGGLPTPEDNLDHYRNSTVMSRAENFKQV 698
|||||
QY 673 EYLLIHGTADDNVHFQOQSAQISKALVDVGVDFQAMWYTDDEHGIASSTAHOHIYTHMSHF 732
|||||
Db 699 EYLLIHGTADDNVHFQOQSAQISKALVDVGVDFQAMWYTDDEHGIASSTAHOHIYTHMSHF 758
|||||
QY 733 IKQCFSLP 740
|||||
Db 759 IKQCFSLP 766
|||||

RESULT 5

ADD27855
ID ADD27855 standard; protein; 766 AA.
XX
AC ADD27855;
DT 15-JAN-2004 (first entry)
XX
DE Human dipeptidyl peptidase IV (DPPIV).
XX
KW Mucosal inflammation; rhinitis; sinusitis; exopeptidase; substance P; SP;
KW neurokinin 1 receptor; NK1 receptor; allergy; asthma; antiallergic;
KW antiinflammatory; antiaesthetic; human; dipeptidyl peptidase IV; DPPIV;
KW enzyme.
XX
OS Homo sapiens.
XX
PN US2003165489-A1.
XX
PD 04-SEP-2003.
XX
PF 27-NOV-2001; 2001US-00993959.
XX
PR 28-FEB-2001; 2001US-00794236.
XX
PA (BMRA-) BMRA CORP BV.
XX
PI Grouzmann E, Lacroix J, Monod M;
XX
DR WPI; 2003-811386/76.
XX
PT Treatment of patient for mucosal inflammation associated with rhinitis
PT and/or sinusitis involves intranasally administering peptidase that
PT cleaves at Xaa-Pro sequences or agent inhibiting binding of Sp to
PT neurokinin 1 receptor.
XX
PS Disclosure; SEQ ID NO 1; 14pp; English.
XX
CC The present invention relates to a method of treating a patient for
CC mucosal inflammation associated with rhinitis and/or sinusitis. The
CC method comprises intranasally administering to the patient a peptidase
CC that cleaves at Xaa-Pro sequences or an agent that inhibits the binding
CC of substance P (SP) to the neurokinin 1 (NK1) receptor. The peptidase is

an exopeptidase, preferably selected from human dipeptidyl peptidase IV
(DPPIV), human quiescent cell proline dipeptidase, human dipeptidyl
peptidase 8, or human attractin. The method is useful for treating a
patient for mucosal inflammation associated with rhinitis and/or
sinusitis which are the result of allergies or asthma. The invention
provides an effective treatment of the inflammation associated with both
rhinitis and sinusitis. The present sequence represents human DPPIV.
XX
SQ Sequence 766 AA;

Query Match 98.0%; Score 3939; DB 7; Length 766;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 728; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 13 SRKTYTITDYLKNTYRLKLYSLRWISDHEVLYKQENNILVFNAYSGNSSVPLENSTPDEF 72
|||||
Db 39 SRKTYTITDYLKNTYRLKLYSLRWISDHEVLYKQENNILVFNAYSGNSSVPLENSTPDEF 98
|||||
QY 73 GHSINDYSIGPDGQFILLLEYNVYKQWRHSYTASDIYDLNKRQLITTEIRINNTQWWTWS 132
|||||
Db 99 GHSINDYSIGPDGQFILLLEYNVYKQWRHSYTASDIYDLNKRQLITTEIRINNTQWWTWS 158
|||||
QY 133 PVGHKLAYVWNNDIYVKIEPNLPSYRITWTGKEDIYNGITDWTVEBEVFSAYSALMWSP 192
|||||
Db 159 PVGHKLAYVWNNDIYVKIEPNLPSYRITWTGKEDIYNGITDWTVEBEVFSAYSALMWSP 218
|||||
QY 193 NGTFLAYAQFNDTEVPLIEYSFYSDLSQYPTKTVRPYPKAGAVNPTKPVVNTDLSLS 252
|||||
Db 219 NGTFLAYAQFNDTEVPLIEYSFYSDLSQYPTKTVRPYPKAGAVNPTKPVVNTDLSLS 278
|||||
QY 253 VTNATSIQITAPASMLIGDHYLVDVWATOBRIQLWRRIQNTSVMDICDYDSSSGRW 312
|||||
Db 279 VTNATSIQITAPASMLIGDHYLVDVWATOBRIQLWRRIQNTSVMDICDYDSSSGRW 338
|||||
QY 313 CLVARQHIEMSTTGWGRFRPSPHFTLDGNSPYKIIISNEEGYRHCYFQIDKKDCTFIT 372
|||||
Db 339 CLVARQHIEMSTTGWGRFRPSPHFTLDGNSPYKIIISNEEGYRHCYFQIDKKDCTFIT 398
|||||
QY 373 KGTWEVIGIEALTSDLYYISNEYKMGPGGRNLYKIQLSDYTKVTKTCLSCENLPERCQYYS 432
|||||
Db 399 KGTWEVIGIEALTSDLYYISNEYKMGPGGRNLYKIQLSDYTKVTKTCLSCENLPERCQYYS 458
|||||
QY 433 VFSFKEAKYQLRCSGPGGLPLYTLHSSVNDKGLRVLEDNSALDKMLQNVQMPKCLDFII 492
|||||
Db 459 VFSFKEAKYQLRCSGPGGLPLYTLHSSVNDKGLRVLEDNSALDKMLQNVQMPKCLDFII 518
|||||
QY 493 LNETKFWYQMLPPHFDKSKKYPILLDVYAGPCSKQADTVFRLNWTATYLASTENIIVASF 552
|||||
Db 519 LNETKFWYQMLPPHFDKSKKYPILLDVYAGPCSKQADTVFRLNWTATYLASTENIIVASF 578
|||||
QY 553 DGRSGYGQDKIMHAINRRLGTFEVEDQIEAARQFSKMGFVNDKRIAIWGSYGYVTSM 612
|||||
Db 579 DGRSGYGQDKIMHAINRRLGTFEVEDQIEAARQFSKMGFVNDKRIAIWGSYGYVTSM 638
|||||
QY 613 VLGGSGVFKCGIAVAPVSRWEYDVSVYTERYMGGLPTPEDNLDHYRNSTVMSRAENFKQV 672
|||||
Db 639 VLGGSGVFKCGIAVAPVSRWEYDVSVYTERYMGGLPTPEDNLDHYRNSTVMSRAENFKQV 698
|||||
QY 673 EYLLIHGTADDNVHFQOQSAQISKALVDVGVDFQAMWYTDDEHGIASSTAHOHIYTHMSHF 732
|||||
Db 699 EYLLIHGTADDNVHFQOQSAQISKALVDVGVDFQAMWYTDDEHGIASSTAHOHIYTHMSHF 758
|||||
QY 733 IKQCFSLP 740
|||||
Db 759 IKQCFSLP 766
|||||

RESULT 6
ADD46934
ID ADD46934 standard; protein; 766 AA.
XX
AC ADD46934;
XX

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Matches 728; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 13 SRKTYTLTDYLNKNTYRLKLSLRWISDHEYLKQENNILVFNABYGNSSVPLENSTFDEF 72
Db 39 SRKTYTLTDYLNKNTYRLKLSLRWISDHEYLKQENNILVFNABYGNSSVPLENSTFDEF 98
QY 73 GHSINDYSIPDGPQFILLEYNVVKWRHSYTSYDIYDLNKRQLITEERIPNNTQWVTS 132
Db 99 GHSINDYSIPDGPQFILLEYNVVKWRHSYTSYDIYDLNKRQLITEERIPNNTQWVTS 158
QY 133 PVGHKLAVVWNNDIYVKLEPNLPSYRIITWTGKEDIYNGITDWTVEEVEFSAYSLWWS 192
Db 159 PVGHKLAVVWNNDIYVKLEPNLPSYRIITWTGKEDIYNGITDWTVEEVEFSAYSLWWS 218
QY 193 NGTFLAYAQFNDTEVPLIEYSFYSDLSQYKPTVRVPYKAGAVNPTVKFFVNTDSLSS 252
Db 219 NGTFLAYAQFNDTEVPLIEYSFYSDLSQYKPTVRVPYKAGAVNPTVKFFVNTDSLSS 278
QY 253 VTNATSIQITAPASMLIGDHYLCVDTWATQERISLOWLRRIONYSVMDICDYDESSGRWN 312
Db 279 VTNATSIQITAPASMLIGDHYLCVDTWATQERISLOWLRRIONYSVMDICDYDESSGRWN 338
QY 313 CLVARQHIEMSTTGWGRFRPSEPHFTLDGNSFYKIIISNEEGYRHICVFQIDKDCCTFIT 372
Db 339 CLVARQHIEMSTTGWGRFRPSEPHFTLDGNSFYKIIISNEEGYRHICVFQIDKDCCTFIT 398
QY 373 KGTWEVIGIEALTSYLYISNEYKMGPGGRNLYKIQLSDYTKVCLSCELNPERCQYYS 432
Db 399 KGTWEVIGIEALTSYLYISNEYKMGPGGRNLYKIQLSDYTKVCLSCELNPERCQYYS 458
QY 433 VSFSEAKYQIQRCSGPGPLPYTLHSSVNDKGLRVLEDSALDKMLQNVQWPSKCLDPFI 492
Db 459 VSFSEAKYQIQRCSGPGPLPYTLHSSVNDKGLRVLEDSALDKMLQNVQWPSKCLDPFI 518
QY 493 LNETKFWQITLPPHFDKSKYPLLLDVYVAGPCOKADTVFRLNWTYLASTENIIVASF 552
Db 519 LNETKFWQITLPPHFDKSKYPLLLDVYVAGPCOKADTVFRLNWTYLASTENIIVASF 578
QY 553 DGRSGYQGDKIMHAINRRLGTFFVEDQTEARQFSKMGFVNDKRIAGWSYGGYVTSM 612
Db 579 DGRSGYQGDKIMHAINRRLGTFFVEDQTEARQFSKMGFVNDKRIAGWSYGGYVTSM 638
QY 613 VLGSYGVPKCGIAVAPVSRWEYDYSVYTERVWGLPTPEDNLDHYRNSTWMSRAENFKQV 672
Db 639 VLGSYGVPKCGIAVAPVSRWEYDYSVYTERVWGLPTPEDNLDHYRNSTWMSRAENFKQV 698
QY 673 EYLLIHGTADDNVHFQQAQISKALVDVGVDFQAMWYTTDEDHGASSTAHQHIYTHMSHP 732
Db 699 EYLLIHGTADDNVHFQQAQISKALVDVGVDFQAMWYTTDEDHGASSTAHQHIYTHMSHP 758
QY 733 IKQCFSLP 740
Db 759 IKQCFSLP 766
RESULT 4
AAG78417
ID AAG78417 standard; protein; 766 AA.
XX
AC AAG78417;
XX
DT 12-APR-2002 (first entry)
XX
DE Human dipeptidyl peptidase IV amino acid sequence.
XX
KW 21953 prollyl oligopeptidase; antibody; proline; endopeptidase; cancer;
KW cardiovascular disease; autoimmune disease; atopic allergy;
KW neuronal disorder; vascular disorder; prostate disorder; cytostatic;
KW antidiabetic; antiarthritic; antiasthmatic; antiinflammatory;
KW diabetes mellitus; arthritis; multiple sclerosis; asthma;
KW Grave's disease; neuronal disorder; demyelinating disease;
KW dipeptidyl peptidase.
XX
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OS Homo sapiens.
XX WO200179473-A2.
XX 25-OCT-2001.
XX 11-APR-2001; 2001WO-US040483.
XX 18-APR-2000; 2000US-0197508P.
XX (MILL-) MILLENNIUM PHARM INC.
XX Meyers RA, Williamson M;
XX WPI; 2002-034353/04.
XX
XX New polypeptides 21953, member of human prollyl oligopeptidase family,
XX useful as diagnostic targets and therapeutic agents for controlling
XX cancer, lymphoma and leukemia.
XX
XX Disclosure; Fig 3; 121pp; English.
XX
XX This invention relates to an isolated 21953 human prollyl oligopeptidase.
XX Which is cytostatic, antidiabetic, antiarthritic, neuroprotective,
XX antithyroid, dermatological, antipsoriatic, antiasthmatic,
XX ophthalmological, antiinflammatory, nootropic, antiparkinsonian,
XX anticonvulsant, gynaecological, vasotropic, antianginal, cardiac,
XX antiatherosclerotic, anorectic and metabolic in its action. Uses include
XX gene therapy, expression or activity of 21953 protein modulator, it is
XX useful for identifying a compound which binds to it and can be used in
XX preventing, treating or detecting a cellular proliferative or
XX differentiative disorder. The 21953 molecules can act as novel diagnostic
XX targets and therapeutic agents for controlling disorders associated with
XX the aberrant activity or degradation of peptide hormones e.g., disorders
XX associated with cell differentiation and proliferation such as cancer,
XX immune function, reproductive, neurological and cardiovascular function.
XX The 21953 molecules are thus useful for treating and preventing cellular
XX proliferative and differentiative disorders, haematopoietic neoplastic
XX disorders, immune disorders such as autoimmune diseases, diabetes
XX mellitus, arthritis, multiple sclerosis, asthma, Grave's disease,
XX neuronal disorders, demyelinating diseases, vascular disorders and
XX metabolism or pain disorders. This sequence represents the amino acid
XX sequence of human dipeptidyl peptidase IV
XX
XX Sequence 766 AA;
```

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Query Match 98.0%; Score 3939; DB 5; Length 766;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 728; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
QY 13 SRKTYTLTDYLNKNTYRLKLSLRWISDHEYLKQENNILVFNABYGNSSVPLENSTFDEF 72
Db 39 SRKTYTLTDYLNKNTYRLKLSLRWISDHEYLKQENNILVFNABYGNSSVPLENSTFDEF 98
QY 73 GHSINDYSIPDGPQFILLEYNVVKWRHSYTSYDIYDLNKRQLITEERIPNNTQWVTS 132
Db 99 GHSINDYSIPDGPQFILLEYNVVKWRHSYTSYDIYDLNKRQLITEERIPNNTQWVTS 158
QY 133 PVGHKLAVVWNNDIYVKLEPNLPSYRIITWTGKEDIYNGITDWTVEEVEFSAYSLWWS 192
Db 159 PVGHKLAVVWNNDIYVKLEPNLPSYRIITWTGKEDIYNGITDWTVEEVEFSAYSLWWS 218
QY 193 NGTFLAYAQFNDTEVPLIEYSFYSDLSQYKPTVRVPYKAGAVNPTVKFFVNTDSLSS 252
Db 219 NGTFLAYAQFNDTEVPLIEYSFYSDLSQYKPTVRVPYKAGAVNPTVKFFVNTDSLSS 278
QY 253 VTNATSIQITAPASMLIGDHYLCVDTWATQERISLOWLRRIONYSVMDICDYDESSGRWN 312
Db 279 VTNATSIQITAPASMLIGDHYLCVDTWATQERISLOWLRRIONYSVMDICDYDESSGRWN 338
QY 313 CLVARQHIEMSTTGWGRFRPSEPHFTLDGNSFYKIIISNEEGYRHICVFQIDKDCCTFIT 372
Db 339 CLVARQHIEMSTTGWGRFRPSEPHFTLDGNSFYKIIISNEEGYRHICVFQIDKDCCTFIT 398
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Region 552..766
/label= C-terminal region of extracellular domain
/note= "1 N-linked glycosylation site & 1 catalytic site"
Active-site 627..631
/label= active site of serine protease/esterase
/note= "fits the consensus sequence GXSG"
W09316102-A1.
19-AUG-1993.
09-APR-1992; 92WO-US002892.
06-FEB-1992; 92US-00832211.
(DAND) DANA FARBER CANCER INST INC.
Morimoto C, Schloseman SF, Tanaka T;
N-PSDB; AAQ46089.
WPI; 1993-272827/34.
N-PSDB; AAQ46089.
Polypeptide fragments of CD26 - are capable of disrupting binding of CD45
and CD26 and thus interfering with T-cell activation.
Disclosure; Page 39-43; 73pp; English.
C26 is a human T cell activation antigen originally identified by its
reactivity with the MAB Tai. C26 cDNA library was constructed from human
PHA-activated T cells using the CMV/vector. The hydrophobic N-terminal of
the predicted C26 polypeptide has the characteristics of a signal
sequence of the type II membrane protein, which is reinforced by the
observation that potential N-glycosylation sites are located in the
carboxy side of the hydrophobic core. Therefore the N-terminal 6 AAs are
predicted to be cytoplasmic, the next 22 AAs are predicted to transverse
the cytoplasmic membrane, and the 738 C-terminal AAs constitute the
predicted extracellular domain. (Updated on 25-MAR-2003 to correct PN
field.)
Sequence 766 AA;

Query Match 98.0%; Score 3939; DB 2; Length 766;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 728; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 13 SRKTYTLTDYLNKTYRLKLYSLRWISDHEYLKQENNLVFNABYGNSSVFLNSTDFEF 72
DB 39 SRKTYTLTDYLNKTYRLKLYSLRWISDHEYLKQENNLVFNABYGNSSVFLNSTDFEF 98
QY 73 GHSINDYSISPDGQFILLVYVQWRHSYASVDYDLNKRQLITEERIPNNTQWTVWS 132
DB 99 GHSINDYSISPDGQFILLVYVQWRHSYASVDYDLNKRQLITEERIPNNTQWTVWS 158
QY 133 PVGHKLAYVWNNNDIVYKIEPNLPSYRIWTGKEDIYNGITDWEVEVFSAYGALWSP 192
DB 159 PVGHKLAYVWNNNDIVYKIEPNLPSYRIWTGKEDIYNGITDWEVEVFSAYGALWSP 218
QY 193 NGTFLAYAFQNDTEVPLIEISFYDESLOYPKTVRVPYKAGAVNPTKFFVNVNTSLSS 252
DB 219 NGTFLAYAFQNDTEVPLIEISFYDESLOYPKTVRVPYKAGAVNPTKFFVNVNTSLSS 278
QY 253 VTNATSIQITAPASMLGDHYLVDVWATQIRISLQWLRRIQNYVMDICDYDESSGRWN 312
DB 279 VTNATSIQITAPASMLGDHYLVDVWATQIRISLQWLRRIQNYVMDICDYDESSGRWN 338
QY 313 CLVARQHEIMSTTGWGRPRPSEPHFTLDGNSFYKIIISNEEGYRHCYFQIDKDCCTFIT 372
DB 339 CLVARQHEIMSTTGWGRPRPSEPHFTLDGNSFYKIIISNEEGYRHCYFQIDKDCCTFIT 398
QY 373 KGTWEVIGIEALTSDYLYISNEYKMGPGGRNLKYQLSDYTKVTCISCELNPERCQYIS 432
DB 399 KGTWEVIGIEALTSDYLYISNEYKMGPGGRNLKYQLSDYTKVTCISCELNPERCQYIS 458

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DB 459 VFSKAEKYYQLRCGPGCLPLYTLHSSVNDKGLRVLEDNSALDKMLQNVQMPSKKLDPII 518
QY 493 LNETKFWYQMLPPHFDKSKKYPDLLLDVYAGPCSKADTVFRLNWTATYLASTENIIVASF 552
DB 519 LNETKFWYQMLPPHFDKSKKYPDLLLDVYAGPCSKADTVFRLNWTATYLASTENIIVASF 578
QY 553 DGRSGYOGDKIMHAINRRGLTFFVEDQIEAAROFKMGFVDNKRKRIATWGSYGGYVTSM 612
DB 579 DGRSGYOGDKIMHAINRRGLTFFVEDQIEAAROFKMGFVDNKRKRIATWGSYGGYVTSM 638
QY 613 VLGSQGVFKGIAVAPVSRWEYDVSVYTERYMGCLPTPEDNLDHYRNSTVMSRAENFKQV 672
DB 639 VLGSQGVFKGIAVAPVSRWEYDVSVYTERYMGCLPTPEDNLDHYRNSTVMSRAENFKQV 698
QY 673 EYLLIHGTADDNVHFQSAQISKALVDVGVDFOAMWYTDDEHGIASSSTAHHQIYTHMSHF 732
DB 699 EYLLIHGTADDNVHFQSAQISKALVDVGVDFOAMWYTDDEHGIASSSTAHHQIYTHMSHF 758
QY 733 IKQCFSLP 740
DB 759 IKQCFSLP 766
RESULT 3
ABB08991
ID ABB08991 standard; protein; 766 AA.
AC ABB08991;
XX 19-JUN-2002 (first entry)
DT Human dipeptidyl peptidase IV.
DE Human; dipeptidyl peptidase IV; antiasthmatic; antiallergic;
KW antinflammatory.
XX Homo sapiens.
XX US6337069-B1.
XX 08-JAN-2002.
XX 28-FEB-2001; 2001US-00794236.
XX 28-FEB-2001; 2001US-00794236.
XX (BMRA-) BMRA CORP BV.
XX Grouzmann E, Lacroix J, Monod M;
XX WPI; 2002-163235/21.
XX Treating a patient for mucosal inflammation associated with rhinitis,
PT sinusitis or both, by intranasally administering a peptidase that cleaves
PT at Xaa-Pro sequences, to the patient.
XX Disclosure; Col 9-14; 13pp; English.
XX Thus invention relates to the treating of a patient for mucosal
CC inflammation associated with rhinitis or sinusitis, comprising
CC intranasally administering a peptidase. The peptidase is considered
CC antiasthmatic, antiallergic and antiinflammatory in its action. The
CC peptidase cleaves at Xaa-Pro sequences and is useful for treating a
CC patient for mucosal inflammation associated with rhinitis or sinusitis,
CC which is the result of allergies or asthma. This sequence represents
XX human dipeptidyl peptidase IV
SQ Sequence 766 AA;
Query Match 98.0%; Score 3939; DB 5; Length 766;
Best Local Similarity 100.0%; Pred. No. 0;

98 1002 24.9 988 4 ABB65641 Abb65641 Drosophil
99 998 24.8 775 9 ADY51819 Ady51819 T. rubrum
100 987 24.6 771 2 AAW89589 Aaw89589 Aspergill

ALIGNMENTS

RESULT 1

ID AAR54612 standard; protein; 759 AA.
XX AC AAR54612;

DT 25-MAR-2003 (revised)
DT 09-DEC-1994 (first entry)

XX DE Delta3-9 CD26.

XX KW Human; T cell activation antigen; CD26; analogues; deletion; soluble;
KW signal peptidase; immune-stimulating; response-stimulating; AIDS;
KW immunosuppression; AIDS-related complex.

XX OS Homo sapiens.

XX FH Key Location/Qualifiers

FT Misc-difference 2..3 /note= "position of delta3-9 deletion"

XX PN WO9409132-A1.

XX PD 28-APR-1994.

XX PF 19-AUG-1993; 93WO-US007923.

XX PR 21-AUG-1992; 92US-00934162.

XX PA (DAND) DANA FARBER CANCER INST INC.

XX PI Morimoto C, Schlossman S, Tanaka T;

XX DR WPI; 1994-151317/18.

XX PT Polypeptide fragments and analogues of CD26 and encoding nucleic acid -
PT useful for stimulating immune response, e.g. for treatment of AIDS to
PT counteract immunosuppressive drug, and as vaccine adjuvant.

XX PS Claim 3; Page 49-52; 85pp; English.

XX CC The sequences given in AAR54612-14 represents analogues of the human T
CC cell activation antigen CD26 which have internal deletions. The analogues
CC pref. lack residues 3-9 or 24-34. These analogues are soluble under
CC physiological conditions and lack enough amino acid residues to render
CC them susceptible to cleavage by signal peptidase. The peptide fragments
CC and analogues are useful as immune or response- stimulating therapeutics,
CC eg. they may be used for treatment of disease conditions characterised by
CC immunosuppression, eg. AIDS or AIDS-related complex, other virally or
CC environmentally-induced conditions, and certain congenital immune
CC deficiencies. The peptides can be employed to increase immune function
CC which has been impaired by use of immunosuppressive drugs, such as certain
CC chemotherapeutic drugs. (Updated on 25-MAR-2003 to correct PN field.)

XX SQ Sequence 759 AA;

Query Match 98.0%; Score 3939; DB 2; Length 759;

Best Local Similarity 100.0%; Pred. No. 0;

Matches 728; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 13 SRKTYTLDTYLRKLYSLRWISDHELYLKQENNLVFNAYGNSVFLNSTFDEF 72

DB 32 SRKTYTLDTYLRKLYSLRWISDHELYLKQENNLVFNAYGNSVFLNSTFDEF 91

QY 73 GHSINDYSISPDQGFILLEYNYVKQWRHSYTASDYIDLNKRQLITEERIPNNTQWVTWS 132

DB 92 GHSINDYSISPDQGFILLEYNYVKQWRHSYTASDYIDLNKRQLITEERIPNNTQWVTWS 151
QY 133 PVGHKLAVVWNNDIYVKIEPNLPSYRITWTGKEDIYNGIITDWWYEEVPSAYSALWWSF 192
DB 152 PVGHKLAVVWNNDIYVKIEPNLPSYRITWTGKEDIYNGIITDWWYEEVPSAYSALWWSF 211
QY 193 NGTFLAYAQFNDTEVPLEIYSFYSDLSQYPKTVRVPYKAGAVNPTVKFFVAVNTDLS 252
DB 212 NGTFLAYAQFNDTEVPLEIYSFYSDLSQYPKTVRVPYKAGAVNPTVKFFVAVNTDLS 271
QY 253 VTNATSIQITAPASMLIGDHYLCDVTWATQBRISLOMLRRIQNTYSVMDICDYDESSGRWN 312
DB 272 VTNATSIQITAPASMLIGDHYLCDVTWATQBRISLOMLRRIQNTYSVMDICDYDESSGRWN 331
QY 313 CLVARQHIEMSTTCWVGFRPSPBPHFTLDGNSFYKIIISNEGYRHHICVFQIDKKDCTFIT 372
DB 332 CLVARQHIEMSTTCWVGFRPSPBPHFTLDGNSFYKIIISNEGYRHHICVFQIDKKDCTFIT 391
QY 373 KGTWEVIGIEALTSYLYIISNEYKMGPGGRNLYKIQLSDYTKVTCLSCELNPERCQYYS 432
DB 392 KGTWEVIGIEALTSYLYIISNEYKMGPGGRNLYKIQLSDYTKVTCLSCELNPERCQYYS 451
QY 433 VSPSKAATYQLRCGPGCLPLYTLHSSVNDKGLRVLEDNSALDKMLQNVQWPSKCLDFII 492
DB 452 VSPSKAATYQLRCGPGCLPLYTLHSSVNDKGLRVLEDNSALDKMLQNVQWPSKCLDFII 511
QY 493 LNETKFWQMLPPHFDKSKYPLLLDVYAGPCSKADTVFRLNWTATLASTENIIVASF 552
DB 512 LNETKFWQMLPPHFDKSKYPLLLDVYAGPCSKADTVFRLNWTATLASTENIIVASF 571
QY 553 DGRSGYQGDKIMHAINRRRLGTFEVEDQIEAARQFSKMGFVDNKRKIAIWGWSYGYVTSM 612
DB 572 DGRSGYQGDKIMHAINRRRLGTFEVEDQIEAARQFSKMGFVDNKRKIAIWGWSYGYVTSM 631
QY 613 VLGSGGVFKCGIAVAPVSRWEYDVSUTERYMGLPTPEDNLDHYRNSTVMSRAENFKQV 672
DB 632 VLGSGGVFKCGIAVAPVSRWEYDVSUTERYMGLPTPEDNLDHYRNSTVMSRAENFKQV 691
QY 673 EYLLIHGTADDNVHVFQSSAQISKALVDVGVDFQAWWYTDDEHGIASSTAHOHIYTHMSHF 732
DB 692 EYLLIHGTADDNVHVFQSSAQISKALVDVGVDFQAWWYTDDEHGIASSTAHOHIYTHMSHF 751
QY 733 IKQCFSLP 740
DB 752 IKQCFSLP 759

RESULT 2

AAR40909

ID AAR40909 standard; protein; 766 AA.

XX AC AAR40909;

XX DT 25-MAR-2003 (revised)

DT 05-FEB-1994 (first entry)

XX DE Sequence encoded by human CD26 cDNA.

XX KW Human T cell activation antigen; monoclonal antibody Tal.

XX OS Homo sapiens.

XX FH Key Location/Qualifiers

FT Region 7..28 /label= hydrophobic

FT Region 29..323 /label= N-terminal glycosylated region of extracellular

FT domain /note= "8 sites for N-linked glycans"

FT Region 324..551 /label= Cysteine rich region of extracellular domain

FT /note= "1 N-linked glycosylation site"

GenCore version 5.1.7
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OM protein - protein search, using sw model

Run on: February 17, 2006, 20:37:32 ; Search time 189 Seconds
(without alignment)

1720.319 Million cell updates/sec

Title: US-10-659-055-3

Perfect score: 4020

Sequence: 1 ADPGSHHHHRSKTYTLT.....AQHIYTHSHFINKQCSLP 740

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 2443163 seqs, 439378781 residues

Total number of hits satisfying chosen parameters: 2443163

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 100 summaries

Database :

A_Geneseq_21:*

- 1: Geneseqp1908s:*
- 2: Geneseqp1908s:*
- 3: Geneseqp2000s:*
- 4: Geneseqp2001s:*
- 5: Geneseqp2002s:*
- 6: Geneseqp2003as:*
- 7: Geneseqp2003bs:*
- 8: Geneseqp2004s:*
- 9: Geneseqp2005s:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	3939	98.0	759	2	AAR54612
2	3939	98.0	766	2	AAR40909
3	3939	98.0	766	5	ABB08991
4	3939	98.0	766	5	AGG78417
5	3939	98.0	766	7	ADD27855
6	3939	98.0	766	7	ADD46934
7	3939	98.0	766	7	ADN39272
8	3939	98.0	766	8	ADJ83981
9	3939	98.0	766	8	ADJ75313
10	3939	98.0	766	8	ADO19398
11	3939	98.0	766	8	ADO19806
12	3939	98.0	766	8	ADO171612
13	3939	98.0	766	8	ADO171644
14	3939	98.0	766	8	ABM03355
15	3939	98.0	766	8	ADP54458
16	3939	98.0	766	8	ADU06688
17	3939	98.0	766	8	ADV25525
18	3939	98.0	766	9	ADY15161
19	3939	98.0	766	9	ADY16580
20	3939	98.0	766	9	ADZ14038
21	3939	98.0	766	9	ABE94223
22	3939	97.8	736	8	ADO40240
23	3939	97.8	766	5	ABG61910
24	3939	97.8	766	5	AAO15555

25	3933	97.8	766	6	ABP56700
26	3933	97.8	766	7	ADD14045
27	3933	97.8	766	7	ADN39604
28	3933	97.8	766	8	ADO19400
29	3929	97.7	766	6	ABP55629
30	3929	97.7	766	8	ADQ80365
31	3929	97.7	766	9	ABE77579
32	3928	97.7	766	2	AAR54611
33	3841	95.5	739	8	AAR54613
34	3503	87.1	688	8	ADO171642
35	3409.5	84.8	767	3	AAB11748
36	3406.5	84.7	767	9	ABE77580
37	3402.5	84.6	767	7	ADD46932
38	3395.5	84.5	767	6	ABP56699
39	3390	84.3	760	8	ADJ76138
40	3390	84.3	760	8	ADO171646
41	3390	84.3	760	9	ABE94226
42	3374	83.9	760	9	ABE77581
43	3010	74.9	593	2	AAR40916
44	3010	74.9	593	2	AAR54614
45	2175	54.1	734	9	ABE94218
46	2175	54.1	760	7	ADN95552
47	2175	54.1	760	8	ADQ21351
48	2175	54.1	760	9	ABE94159
49	2168	53.9	760	2	AAW27438
50	2168	53.9	760	6	ABR47452
51	2168	53.9	760	9	ADW14775
52	2163	53.8	723	9	ABE94227
53	2160	53.7	750	9	ABE94161
54	2158.5	53.7	761	9	ABE94163
55	1960.5	48.8	759	2	AAW11963
56	1289.5	32.1	504	5	AD117327
57	1229	30.6	789	5	ABP43687
58	1223	30.4	746	6	ABP55582
59	1223	30.4	746	6	ABP55584
60	1223	30.4	746	6	ABP55581
61	1223	30.4	789	6	ABP55583
62	1223	30.4	796	5	ABG61593
63	1223	30.4	796	5	ABE98124
64	1223	30.4	796	5	ABO4588
65	1223	30.4	796	6	ABP55624
66	1223	30.4	796	6	ABP55580
67	1223	30.4	796	6	ABP55628
68	1223	30.4	796	7	ADA09104
69	1223	30.4	797	6	ABP55573
70	1217	30.3	798	7	AD847758
71	1217	30.3	798	8	ADJ79028
72	1207	30.0	796	6	ABP55592
73	1207	30.0	796	6	ABP55591
74	1198	29.8	743	5	ABP55596
75	1198	29.8	743	5	ADR43716
76	1196	29.8	706	5	ABG61611
77	1168.5	29.1	800	6	ABP55579
78	1166	29.0	789	6	ABP55577
79	1166	29.0	796	6	ABP55576
80	1166	29.0	796	6	ABP55574
81	1166	29.0	796	6	ABP55625
82	1166	29.0	797	6	ABP55575
83	1158.5	28.8	799	6	ABP55578
84	1152.5	28.7	691	5	ABG61612
85	1129	28.1	865	7	ABE58041
86	1129	28.1	865	7	ADP58037
87	1127	28.0	803	6	ABE58662
88	1127	28.0	865	9	ADX26259
89	1119	27.8	804	6	ABP55627
90	1119	27.8	865	6	ABP55626
91	1116	27.8	803	7	ADP79818
92	1116	27.8	859	7	ADP58039
93	1116	27.8	859	7	ADP58035
94	1116	27.8	859	9	ADX26403
95	1112.5	27.7	745	9	ABE65409
96	1089	27.1	804	9	ADX26329
97	1038	25.8	802	4	ABB71751

Abp56700	Human liv
Adi14045	Human arc
Adn39604	Cancer/an
Ado19400	Human PRO
Abp55629	Human dpp
Adq80365	Dipeptid
Abp77579	Human dip
Aar54611	Native CD
Aar54613	Delta24-3
Ado71642	Amino aci
Aab11748	Rat dipep
Aeb77580	Rat dipep
Adq46932	Rat Prote
Abp56699	Rat liver
Adj76138	Marker ge
Ado71646	Amino aci
Aeb94226	Mouse CD2
Aeb77581	Mouse dip
Aar40916	Sequence
Aar54614	Delta594-
Aeb94218	Human sol
Adn95552	Human BEC
Adq21351	Human sof
Aeb94159	Human wil
Aaw27438	Human fib
Abp47452	Breast ca
Adw14775	Tumor-as
Aeb94227	Human sol
Aeb94161	Human sol
Aeb94163	Mouse wil
Aaw11963	Human fib
Adi17327	Polypepti
Abp43687	Dipeptid
Abp55582	Human DPP
Abp55584	Human DPP
Abp55581	Human DPP
Abp55583	Human DPP
Abp61593	Human DPP
Abp98124	Human PMM
Abb04588	Human ami
Abp55624	Human DPP
Abp55580	Human DPP
Abp55628	Human dpp
Ada09104	Novel hum
Abp55573	Human DPP
Ad847758	Human NOV
Adj79028	Human NOV
Abp55592	DPP10 pro
Abp55591	DPP10 tra
Abp55596	DPP10 hom
Adr43716	Human pro
Abg61611	Human DPR
Abp55579	Mouse DPP
Abp55577	Mouse DPP
Abp55576	Mouse DPP
Abp55574	Mouse DPP
Abp55625	Mouse DPP
Abp55575	Mouse DPP
Abp55578	Mouse DPP
Abg61612	Human DPR
ABE58041	Human PRO
ADP58037	Human PRO
ABE58662	Human can
ADX26259	Novel cel
ABP55627	Human dpp
ABP55626	Human dpp
ADP79818	Rat dipep
ADP58039	Rat Prote
ADP58035	Rat Prote
ADX26403	Novel cel
ABE65409	Drosophil
ADX26329	Novel cel
ABB71751	Drosophil